



NEW PRODUCTS CATALOG

<http://www.china-victor.com>

www.victor-multimeter.com



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BEI CHENG (HONG KONG) TECHNOLOGY CO.,LIMITED

INDEX

Bench-Type DMM 8045 mini/8045-II/8155/8165/8165A	P1-4	Automotive Brake Fluid Tester 2GE/2GH/2GHS/2GY	P88
Digital Multimeter 85C/85D/201/202/203/205/205A (new model)	P5-7	Oscilloscope 152S/240/240S/270/270S/2102/2102S/2202/2202S/1025A/1060A/1100AN/ 1050S/1100S/1200S	P89-94
Digital Multimeter 9205/9208/9205B/9205D/9205E/830L/921/923E/925/ 15B MAX/17B MAX/6012C/6012D	P8-14	Battery Tester 3025A/3025B/3025C/3012/3013/3015/3025/3026/3015A/3015B/3015C	P95-97
Digital Multimeter 86B/86C/86D/86E/88B/88C/88D/88E/89A/89B/890C+/890D/890H+/890G+	P15-21	Power Supply 3003/3005/3303/3305/3003A/3005A/3010A	P98-99
Digital Multimeter VC97/970/81B/81D/VC9800series(VC9801A+/VC9802A+/VC9804A+/ VC9805A+/VC9808+/VC980+/VC9806+/VC9807A+/VC9820	P22-29	Thickness Meter 852A/852E/852C+	P100
Function Generator 2003A/2004A/2006A/2015H/2040H/2060H	P30-34	Clamp Leaker 6800/690/7100/7100A/7100B/7300/7300A/3700B/8100B/1600	P101-104
Analog Multimeter 3010/3021/7244	P35	H/L Voltage Phase Detector 1601/1700/1800/9000C/9000D/4300/4100/4000M/4500	P105-110
Capacitance Multimeter 6013/ 6243/6013B	P36	Power Quality Analyser 5000/5000B	P111-P112
LCR Meter 4080/4082/4090A/4090B/4090C/4091A/4091B/4091C/4092A/4092B/4029C/4092D/4092E	P37-38	Water Pipe Leak Detector/Wall Scanner 528A/538A/518	P113
Clamp Multimeter 6019D/6019E/616A/616B/606+/606A+/606B+/606C+/ 610B+/610C+ (New Design 2022)	P39-41	Digital Inclinomater/Digital Protractor 5001/5003/5005/5006	P114
Clamp Multimeter 6050/6052/6056A+/6056C+/6056E/6016B+/610L/615B/6015F/ 6266/3218+/3218A/3266/3266C/606D/606E/606H/606G/610D/610E	P42-50	Digital Caliper/Digital Force Gauge 5150/5200/5300/5150S/10N/50N/100N/200N/500N	P115
Resistance TesterVC60B+/VC60D+/4105A/4105B/4105C/4106C/6310A/6310B/9600/9600B/ 9620/9620B/9620C/9600S/6410/6412/6412+/140/140D/140A/6415/6415A	P51-64	Desoldering Station 8586B	P116
High Voltage Clamp Meter 4000/385+/9000/9000B	P65-66	Leeb Hardness Tester/Digital Torque Wrench 853A/NG-30/NG-60/NG-135/NG-200/NG-340	P117
Digital Tachometer 6234P/6235P/6236P/6237P/6238P	P67	Gas Detector 822M/822A/822C/822D/829A/820D	P118-120
Sound Level Meter 824/824c/834BW	P68-69	PCBA Infrared Thermal Imaging Analyzer 380S	P121
Lux Meter 1010D+/1010DL	P70	7 Inch Digital Microscope DM9	P122
Anemometer 816/816B/816BL	P71	Wrist High Voltage Alarm/High voltage power alarm 90/90A/90B	P123-124
Thermometer Series 230DW/230/230A/330/6801/231/231A/320M/320/320B/328A/328B/328C/ 328D/328E/360S/303B/302B/306B/307C/308D/310C/304D/304E/304F	P71-80	Magnetic Pole Identification Pen/Accessories 862M/Test leads/Temperature probe	P125-126
Vibrometer 63/63A/63B/65/65B/66B	P81-82	Process Calibrator 26/26H/24/25/24Pro/11+/14+/15+/709H/01S/02S/04S/05S/06/07	P127-137
Phase Detector 850/850A/850C/850D	P83	Process Multimeter 77+/78+/79+/79A+	P138-139
Wire Tracker 668A	P84	Pressure Calibration Instrument/Pressure module PC01/02/03/04	P140-142
Moisture Tester 2GA/2GB	P85	Insulation Tester 60F/60G/60H/3123/3125/3126/4106A/4107B/4108	P143-146
Mini Digital Torque Wrench NGM-10	P86	High-class True RMS Multimeter 98A+/98C+/189A	P147-P148
Laser Distance Meter 842A/842B/842C/842D	P87	High -class Bench-Type DMM 8145C/8246A/8246B/8265	P149-151
		Signal Generator 71A/71B/71C	P152
		Programmable DC electronic load 3801M/3803M/3824M	P153-154
		Weather Station with WiFi	P155-158
		Accessories	P159-162

COMPANY PROFILE

VICTOR is a brand belongs to Xi'an Beicheng Electronics Co.Ltd. which was established in 2013,VICTOR specializes in producing test instruments, especially digital multimeters. Our products include digital multimeters, clamp-meters, calibrators , megohmmeters, thermometers, tachometers, vibrometers, lux meters, function generators, LCR Meters, oscilloscopes and other electronic testing and measuring equipment.

We also provide electronic test tools, measurement solutions, environmental products and ODM and OEM services to specific customers.

As before, our factory(Shenzhen VICTOR Hi-Tech Co.,Ltd.) is in Shenzhen city, To expand production demand,we moved to Xi'an city in 2013. And then we registered two new trademarks (Ruoshui) for promotion of our VICTOR products to overseas market.

While paying attention to product research and development, VICTOR strictly stresses the product quality, and establishes and implements the quality management system according to the requirements of ISO9001.

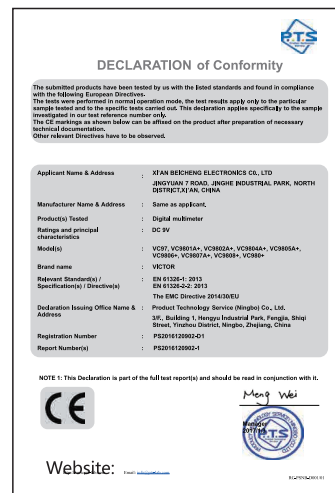
Most of the products comply with international quality standards(CE, RoHS,UKCA) and are greatly appreciated in a variety of different markets throughout the world.

We have a strong R & D team for design of differents kinds of multimeters and digital calibrators and other test instruments. We have construction engineer, software engineer,tooling engineer,products designer.etc. to provide OEM/ODM projects for special customers.

Nowadays, we have agents and representatives in most city of China. Meanwhile, we successfully enter the overseas market in many countries such as the USA,Germany, Poland, Brazil,South Africa, India, Russia,Koreal.etc.we strive to provide the best products and most considerate services to all customers.



TUV ISO9001



CE CERTIFICATE



8045 mini

New Model



Technical Specifications

Function settings		
Model:VICTOR 8045 mini		
Structure: New design, newly opened mold (monochrome)		
Functional features: No knife disc button function conversion, TFT color screen display, upper computer software.		
Display: Number of words measured:29999(30000 Counts) LCD: 3.5inch TFT Resolution 320 x RGB x 480		
Specification		
DC Voltage(DCV): 300mV/3V/30V/300V/1000V (Can switch between automatic range and manual range)		
AC Voltage(ACV): 300mV/3V/30V/300V/750V(Frequency response: 40 ~ MAX:10kHz)True RMS		
Dc current(DCI): 300uA/3mA/30mA/300mA/3A/10A (Can switch between automatic range and manual range)		
Ac current(ACI): 300uA/3mA/30mA/300mA/3A/10A(Frequency response: 40 ~ MAX:10kHz)True RMS		
Resistance(OHM): 300Ω/3k/30k/300k/3M/30M/300M (Can switch between automatic range and manual range)		
Capacitance(CAP): 30nF/300nF/3uF/30uF/300uF/3mF/30mF/300mF		
Temperature(Temp): -40℃~1000℃ ,-40℉~1832℉		
Frequency(Freq): 30Hz/300Hz/30kHz/300kHz/3MHz/30MHz/300MHz		
(DIODE): Measure the voltage drop of the diode, with an open circuit voltage of approximately 3.2V		
Continuity(BZ): < about 30Ω Beep alarm+display indication		
Other functional items:		
1.Has measurement/stop(Run/Stop)function;		
2.Dual display function button switch (Dual), AC can dual display accompanying frequency, frequency can dual display duty cycle;		
3.Math calculation button switch (Math), can display MAX/MIN;		
4.Product model and version information button display(Utility);		
5.Manual range switching and up/down conversion(Range/↑↓)。		
6. The product is equipped with 2pcs 18650 lithium batteries (with a total charging capacity of 4400mAh), which can be charged and measured simultaneously with the product		
7. The display screen has a battery level grading display, which shows the charging status during charging. At the same time, there is a charging LED indicator next to the charging cable socket (as a charging indicator when the product is turned off). The red LED flashes during charging, and remains on when fully charged or not charged. After the product is turned off, the indicator light will turn off after about 30 seconds (when no load is detected).		
8.The upper computer software that comes with the product can be used for measurement, testing, and data recording and storage		
Packaging configuration		
Manual	1pc	Brochure
10A test lead	1pair	
Temperature probe	1 pc	K type(-20℃~250℃)
Color box	1set	(Bare machine mounted plastic bag, with pearl cotton padding used to secure and protect the product and separate accessories inside)
Type-Ccharging cable	1pc	1 meter long
USB data cable	1pc	USB(Square Type-B interface) 1 meter long

8045-II



Technical data

Basic Function	Range	Basic accuracy	RESOLUTION
DC Voltage	200mV/2V/20V/200V	$\pm(0.05\%+5)$	210uV/100uV/1mV/10mV
	1000V	$\pm(0.1\%+5)$	100mV
AC Voltage	200mV	40Hz~1kHz: $\pm(0.7\%+30)$ 1kHz~10kHz: $\pm(2\%+30)$ 10kHz~20kHz: $\pm(3\%+60)$ 20kHz~50kHz: $\pm(10\%+250)$	10uV
	2V	40Hz~1kHz: $\pm(0.5\%+30)$ 1kHz~10kHz: $\pm(2\%+30)$ 10kHz~20kHz: $\pm(5\%+60)$	100uV
	20V	40Hz~1kHz: $\pm(0.5\%+30)$ 1kHz~10kHz: $\pm(2\%+30)$ 10kHz~20kHz: $\pm(5\%+60)$	1mV
	200V	40Hz~1kHz: $\pm(0.5\%+30)$ 1kHz~5kHz: $\pm(2\%+30)$	10mV
	1000V	40Hz~200Hz: $\pm(0.8\%+10)$ 200Hz~400Hz: $\pm(1.2\%+80)$	100mV
DC Current	200uA/2mA/20mA/200mA	$\pm(0.35\%+10)$	0.01uA/0.1uA/1uA/10uA
	2A	$\pm(0.8\%+10)$	100uA
	20A	$\pm(2.0\%+15)$	1mA
AC Current	20mA/200mA/2A	$\pm(0.8\%+80)$	1uA/10uA/100uA
	20A	$\pm(2.5\%+35)$	1mA
Resistance	200Ω	$\pm(0.5\%+30)$	0.01Ω
	2kΩ/20kΩ/200kΩ/2MΩ	$\pm(0.5\%+40)$	0.1Ω/1Ω/10Ω/100Ω
	20MΩ	$\pm(0.6\%+50)$	1kΩ
Frequency	20Hz~200kHz/200kHz~2MHz/2MHz~20MHz	$\pm(0.1\%+3)$	0.01Hz~0.1kHz/0.1kHz~0.01MHz
	20Hz~200kHz/200kHz~2MHz/2MHz~20MHz	$\pm(3.5\%+20)$	1pF/10pF/100pF/1nF
Capacitance	20nF/200nF/2uF/20uF	$\pm(5\%+30)$	10nF/100nF
	200uF/2000uF	$\pm(5\%+30)$	10nF/100nF

4 1/2



Accuracy: $\pm 0.05\%$
TRUE RMS

RESOLUTION	
Diode test	✓
Frequency	✓
Resistance	✓
Triode test	✓
Continuity buzzer	✓
Overload protection	✓
ACV frequency response	50kHz
Operation way	Manual range
Max. Display	19999
Dimension	260mm*220mm*82mm
Weight	Approx:1Kg
Power	AC220V/110V 47Hz~62Hz

8155



8165A/8165



Technical data 5 1/2

Model		8155
Display screen		3.5" TFT LCD (resolution of 320*480)
Number of display digits		5 1/2
Signal terminal		Front
Fastest measuring speed		6 readings/s
Function	No.	Uncertainty, $\pm$ (% of reading + least significant digit)
DCV	Uncertainty	0.015%+3
	Measurement range	1 μ V~1000 V
	Maximum resolution	1 μ V
ACV	Uncertainty	0.2%+100
	Measurement range	1 μ V~750 V
	Maximum resolution	1 μ V
DCA	Frequency range	40Hz ~ 100kHz
	Uncertainty	0.05%+10
	Measurement range	0.001 μ A~10 A
ACA	Maximum resolution	0.001 μ A
	Uncertainty	0.3%+400
	Measurement range	0.001 μ A~10 A
Resistance	Maximum resolution	0.001 μ A
	Uncertainty	0.02%+6
	Measurement range	0.001 Ω ~20M Ω
Frequency/cycle	Maximum resolution	0.001 Ω
	Uncertainty	0.1%+3
	Measurement range	200 Hz ~ 20 MHz
Capacitance	Maximum resolution	0.001 Hz
	Uncertainty	2%+5
	Measurement range	2nF ~ 10 mF
Mathematical functions:	Maximum resolution	1 pF
	Relative measurement, max/min, dB, dBm, reading hold	
	Data storage/reading	Yes
Interfaces		USB Device, RS232, (Optional :USB Host LAN,Gpib)
Trigger measurement		Yes
Squarewave output		Yes
Fast measurement		Yes
Resistance 4-line measurement		Yes
External trigger measurement		Yes
AC+DC measurement		Yes
Calibration		Yes
On-off/diode		Yes
Limit test function		Yes

Technical data 6 1/2

Model		8165A	8165
Display		3.5 inches color screen (with resolution of 320*480)	
Displayed digit		6 1/2	
Signal terminal		Front/Rear	Front
Maximum measuring speed		2300 readings/second	
Function	Item	Uncertainty, $\pm$ (% measurement value + % measurement range)	
DCV	Uncertainty	0.0030+0.0005	
	Measurement range	0mV-1000V	
	Maximum resolution	100nV	
ACV	Uncertainty	0.06+0.03	
	Measurement range	1mV-750V	
	Maximum resolution	100nV	
DCA	Frequency range	3Hz-300kHz	
	Uncertainty	0.05+0.006	
	Measurement range	0uA-12A	
ACA	Maximum resolution	100pA	
	Uncertainty	0.10+0.04	
	Measurement range	1uA-12A	
Resistance	Maximum resolution	100pA	
	Frequency range	3Hz-10kHz	
	Uncertainty	0.01+0.001	
Frequency/period	Measurement range	0.01-1G Ω	
	Maximum resolution	10u Ω	
	Uncertainty	0.007	
Capacitance	Measurement range	3Hz-300kHz	
	Maximum resolution	1uHz	
	Uncertainty	1+0.3	
On-off/Diode	Measurement range	0nF-100mF	
	Maximum resolution	1pF	
	Yes		
Proportion (DC: DC)	Reference terminal range	100mV-10V	
	Input terminal range	100mV-1000V	
	Type	Platinum resistance, thermistor and user - defined sensor	
Math function	Maximum resolution	0.001 $^{\circ}$ C	
	Relative (ax+b), maximum/minimum/average, standard deviation, dB, dBm, reading-keeping and limits test		
	Histogram and tendency chart		
Graph			
Interface		RS-232, IEEE 488, LAN, USB Device, USB Host, Trig IN/OUT	
Programming language		SCPI compatible with Agilent 34401A and Fluke 45	

85C



Technical data

Mode	85C	85D
basic skills	Range	Precision
DC voltage	2V/20V/200V 600V	6V/60V 600V
AC voltage	2V 20V/200V 600V	6V 60V 600V
DC current	600mA 6A 10A	600mA 6A 10A
AC current	600mA 6A 10A	600mA 6A 10A
Resistance	2000Ω 20kΩ/200kΩ 2MΩ 20MΩ	60kΩ/60kΩ/600kΩ 6MΩ 60MΩ
Capacitance	*	60nF/600nF/6uF/60uF/600uF 6mF/60mF



201



202



203

85D



Features	85C	85D
Display	LCD digital display	LCD digital display
Operation	Full intelligent automatic range	Full intelligent automatic range
Max display	1999	5999
Diode test	*	✓
CAP	*	✓
Firewire recognition	✓	✓
HOLD	✓	✓
NCV	✓	✓
Backlight	✓	✓
Overload	OL displayed on LCD	OL displayed on LCD
Low voltage	✓	✓
On-off beep	✓	✓
Operating °C	0~40°C <75%RH	0~40°C <75%RH
Store (°C)	-20~60°C <85%RH	-20~60°C <85%RH
Shut-down	✓	✓
Unit symbol	✓	✓
Resistance	10MΩ	10MΩ
Frequency response	40~1KHz	40~1KHz
Power supply	AAA 1.5V*2	AAA 1.5V*2
Product Size	146*72*50mm	146*72*50mm
Weight	210g	210g

Function	Range	201	202	203
DCV	200mV	±(0.5%+5)	±(0.5%+5)	±(0.5%+5)
	2V/20V/200V	±(0.5%+3)	±(0.5%+3)	±(0.5%+3)
	600V	±(1.0%+10)	±(1.0%+10)	±(1.0%+10)
ACV	200V/600V	±(1.2%+10)	±(1.2%+10)	±(1.2%+10)
	200uA	±(1.0%+10)	±(1.0%+10)	±(1.0%+10)
	200mA	±(1.2%+8)	±(1.2%+8)	±(1.2%+8)
DCA	10A	±(2.0%+5)	±(2.0%+5)	±(2.0%+5)
	200Q	±(0.8%+5)	±(0.8%+5)	±(0.8%+5)
	2kQ/20kQ/200kQ	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)
Resistance	2MΩ		±(1.0%+5)	
	20MΩ	±(1.0%+5)		±(1.0%+5)
	200MΩ		±(5.0%+30)	
Capacitance	200uF		±(5.0%+10)	
Frequency	20kHz			±(1.0%+10)
Temperature	-20°C~1000°C			<400°C ±(1.0%+5) ≥400°C ±(1.5%+15)
	-4°F~1832°F			<752°F ±(1.0%+5) ≥752°F ±(1.5%+15)
Battery measurement function		✓		
Diode test		✓	✓	✓
Continuity alarm		✓	✓	✓
Data hold		✓	✓	✓
Torch function		✓	✓	✓
Back light function		✓	✓	✓
NCV measurement		✓	✓	✓
Auto shutdown		✓	✓	✓
True RMS		✓	✓	✓
Operating method		Manual range	Manual range	Manual range
Low voltage display		"CL" appears.		
Display method		LCD display		
Max. display		1999 (3 1/2 digits) Auto polarity display		
Measuring method		AD conversion measurement		
Sampling rate		About 3 times/s		
Over range indication		The MSD displays "OL"		
Dimension		146mm*72mm*50mm		
Weight		About 232g (include batteries)		

205



Technical data

Function	Range	205	205A
DCV	600mV	±(0.5%+5)	±(0.5%+5)
	6V/60V	±(0.5%+3)	±(0.5%+3)
	600V	±(1.0%+10)	±(1.0%+10)
ACV	6V/60V	±(0.8%+5)	±(0.8%+5)
	600V	±(1.2%+10)	±(1.2%+10)
DCA	600uA/6000uA		±(1.0%+10)
	60mA		
	600mA	±(1.2%+8)	±(1.2%+8)
	6A		
ACA	600uA/6000uA		±(1.0%+10)
	60mA		
	600mA	±(1.5%+15)	±(1.5%+15)
	6A		
Resistance	10A	±(3.0%+10)	±(3.0%+10)
	600Ω	±(0.8%+5)	±(0.8%+5)
	6kΩ		±(0.8%+5)
	60kΩ/600kΩ/6MΩ	±(0.8%+4)	±(0.8%+4)
	60MΩ		±(1.2%+10)
Capacitance	10nF	±(5.0%+40)	±(5.0%+40)
	100nF/1uF/10uF/100uF	±(3.5%+20)	±(3.5%+20)
	2mF	±(5.0%+40)	±(5.0%+40)
Frequency	10Hz/100Hz/1kHz/10kHz/100kHz/2MHz	±(1.0%+10)	±(1.0%+10)
Temperature	-20°C~1000°C		<400°C ±(1.0%+5) ≥400°C ±(1.5%+15)
	-4°F~1832°F		<752°F ±(1.0%+5) ≥752°F ±(1.5%+15)
Diode test		✓	✓
Continuity alarm		✓	✓
Data hold		✓	✓
Torch function		✓	✓
Back light function		✓	✓
NCV measurement		✓	✓
Auto shutdown		✓	✓
True RMS		✓	✓
Operating method	Manual range		Auto range
Low voltage display		✓	✓
Display method	LCD display		LCD display
Max. display	5999 (3 5/6 digits) Auto polarity display		
Sampling rate	About 3 times/s		
Over range indication	The MSD displays "OL"		
Dimension	146mm*72mm*50mm		
Weight	About 232g (include batteries)		

205A



Technical data

Model	VC9205	VC9208
DC Voltage	Resolution 200mV/2V/20V/200V	Resolution 200mV/2V/ 20V/200V
	Accuracy ±(0.5%+4)	Accuracy ±(0.5%+4)
AC Voltage	1000V	1000V
	2V/20V/200V	2V/20V/200V
	750V	750V
DC Current	200uA/2mA/20mA	200uA/2mA/20mA
	200mA	200mA
AC Current	10A	10A
	200mA	200mA
Capacitance	20nF/2uF	20nF/2uF
	200uF	200uF
Frequency	200Ω	2kHz/200kHz
	2kΩ/20kΩ/200kΩ	200Ω
Resistance	20MΩ	2kΩ/20kΩ/200kΩ/2MΩ
	200MΩ	20MΩ
	±5% (reading-10)+30	±(1.0%+25)
Celsius	*	±(1.5%+15) ≥400°C

Special Function	VC9205	VC9208
Display		LCD
Transistor test		✓
Low voltage		✓
Indication		✓
Data Hold		✓
Auto power off		1999 (3 1/2 digits) digit automatic
Max. Display		polarity display
Size		174 * 87 * 34mm
Weight		About 190g
Power		9V Battery (6F22)
Color		Orange + Black
Dimensions		61*32mm

Technical parameter

Model	9205B	9205C
Basic skills		
DCV	200mV/2V/20V/200V/1000V	
ACV	2V/20V/200V/750V	
DC A	20mA/200mA/20A	
ACA	20mA/200mA/20A	
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ	
Capacitance	20nF/200nF/2uF/20uF/200uF	200nF/2uF/20uF/200uF
Frequency	/	200kHz
Temperature	/	-40°C~1000°C

9205



9208



9205B



9205D

New Model



9205E

New Model



VICTOR 9205D 3 1/2 Digital Multimeter

Technical data

Basic Function	9205D	Accuracy
DCV	200mV/2V/20V/200V	±(0.5%+4)
	1000V	±(0.8%+15)
	750V	±(1.0%+15)
ACV	2V/20V/200V	±(0.8%+4)
	750V	±(1.0%+15)
	200uA/2mA/20mA/200mA	±(0.8%+5)
DCA	10A	±(1.0%+15)
	200mA	±(2.0%+15)
	10A	±(3.5%+15)
ACA	200mA	±(2.0%+15)
	10A	±(3.5%+15)
	200mA	±(0.8%+5)
Resistance	200Ω	±(0.8%+5)
	2kΩ/20kΩ/200kΩ/2MΩ/20MΩ	±(1.0%+25)
	200MΩ	±(5.0%+30)
Capacitance	20nF/2μF	±(2.5%+20)
	200μF	±(5.0%+10)
Special Functions		
Maximum Display	1999 (3 1/2) bit automatic polarity display	
Diode test	✓	
On/Off Beep	✓	
Triode	✓	
True effective value	✓	
Low voltage display	Battery symbol display	
Fire line judgment	✓	
Automatic shutdown	No operation for 15 minutes	
Sampling rate	3 times/second	
ACV frequency response	(40-1000)Hz	
Over range prompt	Display OL at the highest position	
Work environment	(0-40)°C, relative humidity<80%	
Storage environment	(-20-60)°C, relative humidity<85%	
Power	9V battery	
Size	167*81*43mm	
Weight	About 167g	

Basic Function	9205E	Accuracy
DC mV	200mV	±(1.0%+5)
DCV	200mV/2V/20V/200V	±(1.0%+2)
	1000V	±(1.2%+10)
	750V	±(1.0%+8)
AC mV	200mV	±(1.0%+8)
	2V/20V/200V	±(1.2%+2)
	750V	±(1.4%+10)
DCA	200uA/2000uA/20mA/200mA	±(1.2%+3)
	2A/10A	±(1.5%+10)
ACA	200uA/2000uA/20mA/200mA	±(2.0%+15)
	2A/10A	±(3.5%+15)
	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ	±(1.0%+25)
Resistance	200MΩ	±(5.0%+30)
	20nF/200nF/2μF/20μF	±(2.0%+25)
	200μF	±(5.0%+10)
Capacitance	20Hz/200Hz/2kHz/20kHz/200kHz	±(0.5%+10)
	200μF	±(5.0%+10)
	200μF	±(5.0%+10)
Frequency		
Special Functions		
Maximum Display	1999	
Power supply	9V	
Diode forward voltage drop	*Test current: approximately 1mA Open circuit voltage: approximately 2.5V"	
"The buzzer makes a long sound, and the resistance value of the testing two points is about less than (50±20)Ω"	Test current: about 0.28mA	

Technical data

Basic Function	Range	Basic accuracy	VC830L	VC921
DC Voltage	200mV/2V/20V/200V/600V	±(0.5%+4)		
	400mV/4V/40V/400V/600V			±(0.5%+4)
	200V/600V	±(1.2%+10)		
AC Voltage	200V/600V	±(1.2%+10)		
	400mV/4V/40V/400V/600V			±(0.8%+6)
	200V/600V	±(1.5%+3)		
DC Current	20uA/200uA/2mA/20mA/10A	±(1.5%+3)		
	200Ω/2kΩ/20kΩ/200kΩ/20MΩ	±(0.8%+5)		
	400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ			±(0.8%+4)
Resistance	200Ω/2kΩ/20kΩ/200kΩ/20MΩ	±(0.8%+5)		
	400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ			±(0.8%+4)
	200Ω/2kΩ/20kΩ/200kΩ/20MΩ			±(3.5%+8)
Capacitance	4nF/40nF/400nF/4uF/40uF/2000uF			±(3.5%+8)
	4nF/40nF/400nF/4uF/40uF/2000uF			±(0.5%+4)
	100Hz/1000Hz/10kHz/100kHz/1MHz/10MHz			
Frequency	100Hz/1000Hz/10kHz/100kHz/1MHz/10MHz			
	100Hz/1000Hz/10kHz/100kHz/1MHz/10MHz			
	100Hz/1000Hz/10kHz/100kHz/1MHz/10MHz			

Special Function	VC830L	VC921
Max. value measurement	✓	
Data hold		✓
Auto power off	✓	✓
Diode test/ Continuity buzzer	✓	✓
Low battery indication	✓	✓
Shock proof protection	✓	✓
Duty cycle measurement	✓	✓
Input impedance	10MΩ	10MΩ
Sampling rate	3 times/s	3 times/s
AC Frequency response	(40-400)Hz	(40-400)Hz
Operation way	Manual range	Auto range
Max. Display	1999	3999
LCD size	57×33mm	55×43mm
Battery	9V(6F22)	3V(1.5V×2)

General Characters

Product Net Weight	Approx:180g	150g(830L)
Product dimension	145×80×28mm	138×72×35mm (830L)
Standard Accessories	Test leads; battery; instruction manual	
Standard Quantity Per Carton	60PCS	
Carton size	470×325×350mm	
Standard Gross Weight	Approx:16.4kg	

830L



3 1/2



921



3 3/4



923E

New Model



VICTOR 923E Intelligent Large Screen Digital Multimeter
with VA color screen 5999 bit display

Technical data

Basic Function	923E	Accuracy
DC voltage	600mV/6V/60V/600V	$\pm(0.5\%+3)$
AC voltage	6V/60V/600V	$\pm(1.0\%+3)$
DC current	600mA/6A/10A	$\pm(1.2\%+3)$
AC current	600mA/6A/10A	$\pm(1.2\%+3)$
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ	$\pm(1.0\%+5)$
	60MΩ	$\pm(2.0\%+10)$
Capacitance	6nF/60nF/600nF/6μF/60μF/600μF	$\pm(4.0\%+5)$
	6mF	$\pm(5.0\%+5)$
	60mF	$\pm(10\%+10)$
Frequency	6Hz/60Hz/600Hz/6kHz/60kHz/600kHz/6MHz/10MHz	$\pm(1.0\%+3)$
Temperature	(-40~1000)°C or (-40~1832)°F	$\pm3^{\circ}\text{C}$ or $\pm6^{\circ}\text{F}$
Essential information		
LCD display	5999 max	
Overload	OL	
Alarm signal	Audible and visual alarm	
Power	1.5V AAA*4	
Low voltage	✓	
Auto shutdown	No operation for 15 minutes	
Size	144*73*27mm	
Weight	About 235g	
Work environment	0~40°C(<75%RH)	
Storage	-20~60°C(<85%RH)	
Jack prompt	✓	
NCV	✓	
Flashlight	✓	
Data retentio	✓	
Diode	✓	
On off buzzer	✓	

925



Technical data

Model	925
Basic Function	Range Accuracy
DC Voltage	10V/100V $\pm(0.5\%+3)$
	600V $\pm(1.0\%+10)$
AC Voltage	10V/100V $\pm(0.8\%+5)$
	600V $\pm(1.2\%+10)$
DC Current	60mA $\pm(1.0\%+5)$
	600mA $\pm(1.5\%+10)$
AC Current	60mA $\pm(1.5\%+10)$
	600mA $\pm(2.0\%+5)$
Capacitance	100nF/1000nF $\pm(4.0\%+20)$
	10μF/100μF/1000μF/1mF $\pm(3.5\%+20)$
	10mF/100mF $\pm(10\%+10)$
Frequency	10Hz~1MHz $\pm(0.1\%+5)$
Resistance	1000Ω $\pm(1.3\%+5)$
	10kΩ/100kΩ/1MΩ $\pm(0.8\%+3)$
	10MΩ $\pm(1.5\%+3)$
	20MΩ $\pm(2.0\%+10)$
Special Function	
High battery indication	✓
Auto power off	✓
Diode	✓
Display	LCD displaying
Over range indication	MSD displays "OL"
Max. Display	9999
Size	137*70*20 mm
Weight	approx.133g
Power	built-in 3.7V 500mA lithium battery
Operating environment	Temperature (0 - 40)°C, humidity<75%RH
Storage environment	Temperature (-20 - 60)°C, humidity<85%RH

15B MAX

New Model



VICTOR 15B 17B MAX NEW Full Function Digital Multimeter 1000V fuse True RMS Multimeter

Technical data

Model	15B MAX	17B MAX
Basic Function	Range	Accuracy
DCV	600mV	±(1.0%+10)
	6V/60V/600V/1000V	±(0.5%+3)
ACV	600mV	±(3.0%+3)
	6V/60V/600V/1000V	±(1.0%+3)
DCA	600uA/6000uA/60mA/500mA/6A/10A	±(1.5%+3)
	600uA/6000uA	±(1.2%+8)
ACA	60mA/500mA	±(1.5%+8)
	6A/10A	±(2.0%+8)
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ	±(0.5%+3)
	60MΩ	±(2.0%+5)
	6nF	±(5.0%+10)
Capacitance	60nF/600nF	±(2.0%+5)
	6uF/60uF/600uF/6mF	±(5.0%+5)
Frequency	10Hz~10MHz	±(0.1%+3)
Duty cycle	1%~99%	±(1.0%+4)
Temperature	(-55~1000)°C/(-67~1832)°F	/
Special Functions		
Display	LCD display	
Max display	5999 (3 5/6) digit and unit display	
Conversion rate	3 times per second	
Over range	The highest position displays "OL"	
Low voltage	The battery symbol appears	
T-RMS	✓	
Diode	✓	
on/offbuzzer	✓	
Max/min	✓	
One click wake-up	✓	
Sound and light alarm	Sound and light alarm for incorrect operation of current mode	
Data retention	✓	
Backlight display	✓	
Relative value	✓	
Automatic shutdown	✓	
work environment	(0~40) °C, relative humidity<75%	
Storage environment	-10~50 °C, relative humidity<85%	
Power Supply	1.5V * 2 AA batteries	
size	187x88x45mm	
weight	About 427g	

17B MAX

New Model



VICTOR 6012C VICTOR 6012D 3 5/6 Pen Type Multimeter Instruction manual

Summary

It is a pen-type multimeter with 3 5/6 digit display, stable performance, high precision, high reliability, clear reading. 180-degree flip display and overload protection function. Powered by AAA 1.5V battery, the instrument features a LCD display, it is easy to carry and can measure AC/DC voltage (True RMS). AC/DC current, resistance and on-off test, capacitance, diode, zero-line judgment, non-contact voltage detection. It is a multi-meter with excellent performance, the ideal tool for laboratories, factories, radio enthusiasts and families.

Model	VICTOR 6012C		VICTOR 6012D	
	Resolution	Accuracy	Resolution	Accuracy
DC Voltage	6V/60V/600V	±(0.5%+4)	6V/60V/600V/1000V	±(0.5%+4)
	1000V	±(0.8%+10)	1000V	±(0.8%+10)
AC Voltage	6V/60V/600V	±(0.5%+4)	6V/60V/600V	±(0.5%+4)
	750V	±(0.8%+10)	750V	±(0.8%+10)
Capacitance	10nF/100nF/1μF/10μF/100μF/1mF/10mF	±(3.5%+20)	10nF/100nF/1μF/10μF/100μF/1mF/10mF	±(3.5%+20)
	60mF	±(5%+3)	60mF	±(5%+3)
Frequency			10Hz/100Hz/1kHz/10kHz/100kHz/1MHz/8MHz	±(0.1%+3)
Resistance	600Ω	±(0.8%±5)	600Ω	±(0.8%±5)
	6kΩ/60kΩ/600kΩ/6MΩ	±(0.8%±3)	6kΩ/60kΩ/600kΩ/6MΩ	±(0.8%±3)
Environmental temperature	60MΩ	±(2.5%±3)	60MΩ	±(2.5%±3)
	(-20~50)°C/(0~122)°F	±(1.0%+5)	(-20~50)°C/(0~122)°F	±(0.75%+5)

Special Function	VICTOR 6012C	VICTOR 6012D
Diode	✓	✓
Continuity buzzer	✓	✓
Flashlight Function	✓	✓
Data Hold	✓	✓
Display	Black and White screen	Color screen
Auto power off	✓	✓
Flashlight	✓	✓
Sample rate	about 3/sec	about 3/sec
Overrange indication	The highest digit displays "OL"	The highest digit displays "OL"
Phase sequence measurement		✓
Zero/Fire Line measurement	✓	✓
NCV measurement	✓	✓
Operation way	Auto range	Auto range

Size	170X24X21mm
Weight	Approx.50g
Power supply	1* 15V AAA
Display size	30x11.5mm
Color	Black + Orange

6012C



6012D



86B



Model	86B	86C	86D	
	Resolution			Accuracy
DC Voltage	400mV/4V/40V/400V 1000V	400mV/4V/40V/400V 1000V	600mV/6V/60V/600V 1000V	±(0.5%+4) ±(1.0%+6)
DC millivolts	40mV/400mV	/	/	±(0.5%+5)
AC millivolts	40mV/400mV	/	/	±(1.0%+6)
AC voltage	4V/40V/400V 750V	4V/40V/400V 750V	6V/60V/600V 750V	±(0.8%+10) ±(1.0%+10)
DC current	400uA/4000uA/ 40mA/400mA	400uA/4000uA/ 40mA/400mA	600uA/6000uA/ 60mA/600mA	±(1.0%+10) ±(1.2%+10)
AC current	400uA/4000uA/ 40mA/400mA	400uA/4000uA/ 40mA/400mA	600uA/6000uA/ 60mA/600mA	±(1.5%+10)
Resistance	400Ω 40Ω/40kΩ/400kΩ/4MΩ	400Ω 4kΩ/40kΩ/400kΩ/4MΩ	600Ω 6kΩ/60kΩ/600kΩ/6MΩ	±(2.0%+15) ±(0.8%+5)
Capacitance	400nF/4uF/40uF 400uF/4mF/40mF	400nF/4uF/40uF 400uF/4mF/40mF	600nF/6uF/60uF 600uF/6mF/60mF	±(5.0%+30) ±(3.5%+8) ±(5.0%+10)
Frequency	10Hz/100Hz/1kHz/ 10kHz/100kHz/ 1MHz/30MHz	10Hz/100Hz/1kHz/ 10kHz/100kHz/ 1MHz/30MHz	10Hz/100Hz/1kHz/ 10kHz/100kHz/ 1MHz/30MHz	±(0.5%+4)
Temperature	-20°C~400°C 400°C~1000°C	-20°C~400°C 400°C~1000°C	-20°C~400°C 400°C~1000°C	±(1.0%+5°C) ±(1.5%+15°C)

General specifications			
Max Display	3999 (3 3/4)	3999 (3 3/4)	5999 (3 5/6)
Simulated bar	/	/	61 segment simulation bar
Transistor	/	/	✓
Diode	/	/	✓
On/off buzzing	/	/	✓
USB	/	/	✓
Relative value	/	/	✓
Max/min	/	/	✓
Data retention	/	/	✓
LIVE	/	/	✓
NCV	/	/	✓
Backlight	Display battery symbols		
Low voltage	Display "OL"		
Over range	Shutdown after about 15 minutes of inactivity		
Auto shutdown	3 times/second		
Sampling rate	0~40 °C, relative humidity<80%		
Work environment	-10~50 °C, relative humidity<80%		
Storage environment	Four AAA batteries		
Source	189*88*56mm		
Size	Approximately 423g		
Weight	Instruction manual, color box, certificate of conformity, pen, crocodile clip, cloth bag, USB data cable, K-type thermocouple, adapter (only 86D)		
Parts			

86C



86D



Model	86E	
	Resolution	
DC Voltage	220mV/2.2V/22V/220V 1000V	±(0.5%+10) ±(0.1%+10)
AC voltage	220mV 2.2V/22V/220V 750V	±(1.0%+25) ±(0.8%+25) ±(1.0%+25)
DC current	220uA/2200uA/22mA 220mA 10A	±(0.5%+10) ±(0.8%+10) ±(2.0%+25)
AC current	220uA/2200uA/22mA 220mA 10A	±(1.2%+25) ±(1.5%+25) ±(2.5%+35)
Resistance	200Ω 2.2kΩ/22kΩ/220kΩ/2.2MΩ 22MΩ	±(0.5%+30) ±(0.4%+5) ±(0.5%+25)
Capacitance	22nF/220nF/2.2uF/22uF/220uF 2.2mF 22mF/220mF	±(5.0%+10) ±(2.5%+15) ±(4.0%+10)
Frequency	22Hz/220Hz/22kHz/220kHz/2.2MHz/22MHz 50MHz >50MHz	±(1.0%+4) ±(0.2%+4)
Temperature	-20°C~400°C 400°C~1000°C	±(1.0%+5°C) ±(1.5%+15°C)

General specifications	
Max Display	22000 (4 1/2)
Simulated bar	46 segment simulation bar
Diode	✓
On/off buzzing	✓
USB	✓
Relative value	✓
Max/min	✓
Data retention	✓
Backlight	✓
Low voltage	Display battery symbols
Over range	Display "OL"
Auto shutdown	Shutdown after about 15 minutes of inactivity
Sampling rate	2times/second
Work environment	0~40 °C, relative humidity<80%
Storage environment	-10~50 °C, relative humidity<80%
Source	Four AAA batteries
Size	189*88*56mm
Weight	Approximately 423g
Parts	Instruction manual, color box, certificate of conformity, pen, crocodile clip, cloth bag, USB data cable, K-type thermocouple

86E New Model



88B



3 1/2

TRUE RMS

Technical data

Basic Function	Range	Basic accuracy 88B	88C
DC Voltage	200mV/2V/20V/200V/1000V	±(0.5%+3)	±(0.5%+3)
AC Voltage	2V/20V/200V/750V	±(0.8%+5)	
	200mV/2V/20V/200V/750V		±(0.8%+5)
DC Current	200uA/2mA/20mA/200mA/20A	±(0.8%+4)	
	2mA/20mA/200mA/20A		±(0.8%+3)
AC Current	20mA/200mA/20A	±(1.0%+5)	
	2mA/20mA/200mA/20A		±(1.0%+5)
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ/200MΩ	±(0.8%+3)	
	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ/200MΩ		±(0.8%+3)
Capacitance	20nF/200nF/2uF/20uF/200uF/2000uF	±(2.5%+20)	
	20nF/200nF/2uF/20uF/200uF		±(2.5%+20)
Frequency	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz	±(3.0%+15)	
	2kHz/20kHz/200kHz/2000kHz/10MHz		±(0.5%+4)
Inductance	2mH/20mH/200mH/2H/20H	±(2.5%+20)	
Celsius	(-20~1000)°C	±(1.0%+3)	±(1.0%+4)
Fahrenheit	(0~1832)°F	±(1.5%+15)	

Special Function	88B	88C
Diode test	✓	✓
Continuity buzzer	✓	✓
Low battery indication	✓	✓
Backlight	✓	✓
Data hold	✓	✓
Auto power off	✓	✓
Function protection	✓	✓
Restorable Fuse Protection	✓	✓
Shock proof protection	✓	✓
Input impedance	10MΩ	10MΩ
Sampling rate	3 time/s	3 time/s
AC Frequency response	(40~400)Hz	(40~400)Hz
Operation way	Manual range	Manual range
Max. Display	1999	1999
LCD size	65×45mm	65×45mm
Battery	9V(6F22)	9V(6F22)

General Characters

Product color	Case:Black;Holster color:orange
Product Net Weight	Approx:400g
Product dimension	189×97×35mm
Standard Accessories	Test leads; battery; instruction manual ;TP01 temperature probe(88B/C); Testing accessories ;
Standard inner packing	Color box
Carton size	465×317×506mm
Standard Quantity Per Carton	30PCS
Standard Gross Weight	Approx: 21kg

Technical data

Basic Function	Range	Basic accuracy 88D	88E
DC Voltage	200mV/2V/20V/200V/1000V	±(0.1%+5)	
	400mV/4V/40V/400V/1000V		±(0.5%+4)
DC Voltage	40mV/400mV		±(0.5%+4)
AC Voltage	2V/20V/200V/750V	±(0.8%+25)	
	4V/40V/400V/750V		±(0.8%+6)
	40mV/400mV		±(1.6%+6)
DC Current	200uA/2mA/20mA/200mA/20A	±(0.5%+4)	
	400uA/4mA/40mA/400mA/20A		±(1.0%+10)
AC Current	2mA/20mA/200mA/20A	±(1.5%+25)	
	400uA/4mA/40mA/400mA/20A		±(1.5%+5)
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ/200MΩ	±(0.4%+5)	
	400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ		±(0.8%+4)
Capacitance	20nF/200nF/2uF/20uF/200uF/2000uF	±(3.5%+10)	
	40nF/400nF/4uF/40uF/200uF		±(2.5%+8)
Frequency	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz	±(3.0%+150)	
	100Hz/1000Hz/10kHz/100kHz/1MHz/10MHz		±(0.5%+4)
Celsius	(-20~1000)°C	±(0.8%+40)	±(1.0%+4)
Fahrenheit	(0~1832)°F		±(0.8%+5)

Special Function	88D	88E
Diode test	✓	✓
Continuity buzzer	✓	✓
Low battery indication	✓	✓
Relative value measurement	✓	✓
Max./Min.Value selection		✓
Backlight	✓	
Data hold		✓
Auto power off	✓	✓
Bar graph display	✓	✓
Function protection	✓	✓
Restorable Fuse Protection	✓	✓
Shock proof protection	✓	✓
Input impedance	10MΩ	10MΩ
Sampling rate	3 time/s	3 time/s
AC Frequency response	(40~400)Hz	(40~400)Hz
Operation way	Manual range	Manual/Auto range
Max. Display	19999	3999
LCD size	65×45mm	65×45mm
Battery	9V(6F22)	9V(6F22)

General Characters

Product color	Case:Black;Holster color:orange
Product Net Weight	Approx:400g
Product dimension	189×97×35mm
Standard Accessories	Test leads; battery; instruction manual ; TP01 temperature probe(with temperature function)
Standard inner packing	Color box
Carton size	465×317×506mm
Standard Quantity Per Carton	30PCS
Standard Gross Weight	Approx: 23kg

88D



3 3/4

88E



4 1/2

89A

Technical data

Basic Function	Range	Basic accuracy 89A	89B
DC Voltage	200mV/2V/20V/200V/1000V	±(0.5%+3)	±(0.5%+3)
AC Voltage	2V/20V/200V/750V	±(0.8%+5)	±(0.8%+5)
DC Current	2mA/20mA/200mA/20A	±(1.2%+8)	
	20mA/200mA/20A		±(1.2%+8)
AC Current	20mA/200mA/20A	±(1.5%+15)	
	20mA/200mA/20A		±(1.5%+15)
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/200MΩ	±(0.8%+3)	±(0.8%+3)
	20MΩ		±(1.0%+25)
Capacitance	20nF/200nF/2μF/20μF/200μF/2000μF	±(2.5%+20)	
Celsius	(-20~1000)°C (-0~1832)°F		±(0.8%+4)

3 1/2



89B

Special Function	89A	89B
Diode test	✓	✓
Continuity buzzer	✓	✓
Low battery indication	✓	✓
Data Hold	✓	✓
Auto power off	✓	✓
Function protection	✓	✓
Restorable Fuse protection	✓	✓
Shock proof protection	✓	✓
Input impedance	10MΩ	10MΩ
Sampling rate	3 times/s	3 times/s
AC Frequency response	40~400Hz	40~400Hz
Operation way	Manual range	Manual range
Max. Display	1999	1999
LCD size	61×36mm	61×36mm
Battery	9V(6F22)	9V(6F22)

3 1/2



General Characters

Product color	Case:Black;Holster color:orange
Product Net Weight	Approx:270g
Product dimension	155×90×48mm
Standard Accessories	Test leads; battery; instruction manual ; Tp01 temperature probe(with temperature function)
Standard inner packing	Color box
Carton size	435×335×425mm
Standard Quantity Per Carton	30PCS
Standard Gross Weight	Approx:18.1kg



Technical data

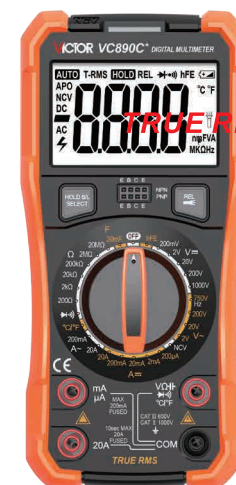
Basic function	Range	Accuracy VC890C+	Accuracy VC890D
DCV	200mV/2V/20V/200V	±(0.5%+3)	±(0.5%+3)
	1000V	±(0.8%+10)	±(0.8%+10)
ACV	2V/20V/200V	±(0.8%+5)	±(0.8%+5)
	750V	±(1.2%+10)	±(1.2%+10)
DCA	200uA/2mA/20mA	±(0.8%+10)	±(0.8%+10)
	200mA	±(1.2%+8)	±(1.2%+8)
	20A	±(2.0%+5)	±(2.0%+5)
ACA	20mA		±(1.0%+15)
	200mA	±(2.0%+5)	±(2.0%+5)
	20A	±(3.0%+10)	±(3.0%+10)
Resistance	200Ω	±(0.8%+5)	±(0.8%+5)
	2kΩ/20kΩ/200kΩ/2MΩ	±(0.8%+3)	±(0.8%+3)
	20MΩ	±(1.0%+25)	±(1.0%+25)
Capacitance	6nF	±(5.0%+40)	±(5.0%+40)
	60nF/600nF/6μF/60μF	±(3.5%+20)	±(3.5%+20)
	600μF/6mF/20mF	±(5.0%+10)	±(5.0%+10)
Celsius	(-20~1000)°C (-4~1832)°F	<400°C±(1.0%+5) ≥400°C±(1.5%+15)	

Special Function	VC890C+	VC890D
Diode & Continuity test	✓	
Backlight	✓	
Continuity buzzer	✓	
Low battery indication	✓	
Auto power off	✓	
Function protection	✓	
200mA/20A Protection	✓	
TRUE RMS	✓	
NCV measurement	✓	
Torch function	✓	
Shock proof protection	✓	
Input impedance	About 10MΩ	
Sampling rate	3 times/s	
Frequency response	(40~1000)Hz	
Operation way	Manual Range	
Max. Display	1999	
LCD size	61 x 36mm	
Battery	2*1.5V AA LR6	

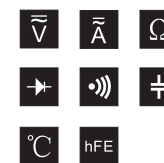
General Characters	
Product Color	Case: black ; Holster color: orange
Product Net Weight	Approx . 335g (including battery)
Product Dimension	178*86*52mm
Standard Accessories	Test leads , battery , manual , K-type probe
Standard inner packing	Color box
Carton size	435*335*425mm
Standard Quantity /Carton	30Pcs
Standard Gross Weight	Approx .18.2kg

VC890C+

New Model

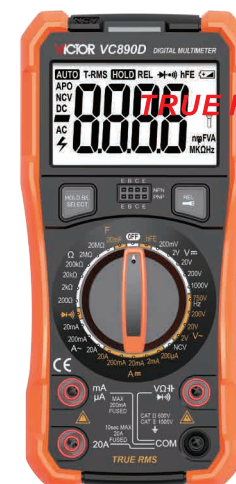


3 1/2



VC890D

New Model



3 1/2





890H+

890G+

TRUE RMS

Technical data

Basic function	Range	Accuracy VICTOR 890H+	Accuracy VICTOR 890G+
DCV	600mV/6V/60V/600V/1000V	±(0.5%+3)	±(0.5%+3)
ACV	600mV/6V/60V/600V/750V	±(0.8%+5)	±(0.8%+5)
ACV	6V/60V/600V/750V		±(0.8%+5)
DCA	600μA/6000μA/60mA/600mA/10A	±(1.2%+3)	
DCA	60μA/60mA/600mA/10A		±(1.2%+3)
ACA	600μA/6000μA/60mA/600mA/10A	±(1.5%+3)	
	60mA/600mA/10A		±(1.5%+3)
Resistance	600Ω/6kΩ/60kΩ/600kΩ	±(1.0%+3)	±(1.0%+3)
	6MΩ/60MΩ	±(1.5%+3)	±(1.5%+3)
Capacitance	10nF/100nF/1000nF/10μF/100μF/1000μF	±(4%+5)	±(4%+5)
	10mF/100mF	±(5%+5)	±(5%+5)
Frequency/duty cycle	10Hz/100Hz/1000Hz/10kHz/100kHz/1000kHz	±(1.0%+3)	±(1.0%+3)
	10MHz/1~99%	±(3.0%+3)	±(3.0%+3)
Special function		890H+	890G+
Temperature	-20°C~1000°C -4°F~1832°F	✓	
NCV test		✓	✓
Live wire test		✓	✓
Battery test		✓	✓
Input terminal prompt		✓	✓
High voltage prompt		✓	✓
Diode test		✓	✓
Continuity alarm		✓	✓
Low battery		✓	✓
Backlight		✓	✓
Flashlight		✓	✓
Auto power off		✓	✓
Function protection		✓	✓
shakeproof protection		✓	✓
Input impedance		10MΩ	10MΩ
ACV frequency response		10Hz ~ 1kHz	10Hz ~ 1kHz
Operation method		auto range	auto range
Display		6000 counts	6000 counts
Supply		Battery 2*1.5V AA	Battery 2*1.5V AA

Technical data

Basic Function	Range	Basic accuracy 97
DC Voltage	400mV/4V/40V/400V/1000V	±(0.5%+4)
AC Voltage	400mV/4V/40V/400V/750V	±(0.8%+10)
DC Current	400uA/4000uA/40mA/400mA/10A	±(1%+10)
AC Current	400uA/4000uA/40mA/400mA/10A	±(1.5%+10)
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ	±(0.8%+4)
Capacitance	10nF	±(5.0%+20)
	100nF/1uF/10uF/100uF	±(3.5%+8)
	1mF/10mF/100mF	±(5.0%+10)
Frequency	100/1000/10k/100k/1M/30MHz	±(0.5%+10)
Celsius	(-20~1000)°C	±(1.0%+5)
Fahrenheit	(-4~1832)°F	±(1.0%+5)

General Characters

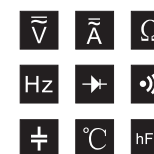
Product color	Case: black ; Holster color: orange
Product Net Weight	Approx:420g
Product dimension	190×93.5×37mm
Standard Accessories	Test leads; battery; instruction manual ;Tp01 temperature probe(with temperature function)
Standard inner packing	Color box
Standard Quantity Per Carton	40PCS
Carton size	465×317×506mm
Standard Gross Weight	Approx:22kg

Special Function	97
Diode/Transistor	✓
Continuity buzzer	✓
Low battery indication	✓
Data hold	✓
Auto power off	✓
Analog bar graph	✓
Shockproof protection	✓
Function protection	1%~99%
Input impedance	10MΩ
Sampling rate	3 time/s
AC Frequency response	(40-400)Hz
Operation way	Auto range
Max.Display	3999
LCD size	70×50mm
Battery	9V

VC97 old model



3 3/4



VC97 2021



VC97 3 3/4 Auto Range Digital Multimeter

- New type holster, streamline design.
- Large LCD makes the reading clearly. Backlight.
- Metallic screen board with stronger antimagnetic and anti-interferential function.
- Full function protection, anti-high voltage circuit design.
- CAT-IV
- True RMS
- NCV

Technical data

Basic Function	Range	Accuracy
DC Voltage	4V/40V/400V	$\pm(0.5\%+4)$
DC Voltage	1000V	$\pm(1.0\%+6)$
DC mV	40mV/400mV	$\pm(0.5\%+5)$
ACmV (True RMS)	40mV/400mV	$\pm(1.0\%+6)$
AC Voltage (True RMS)	4V/40V/400V	$\pm(0.8\%+10)$
AC Voltage (True RMS)	750V	$\pm(1.2\%+10)$
DC Current	400uA/4000uA/40mA/400mA/4A/10A	$\pm(1\%+10)$
AC Current (True RMS)	400uA/4000uA/40mA/400mA/4A/10A	$\pm(1.5\%+10)$
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ	$\pm(0.8\%+4)$
Capacitance	6nF	$\pm(5.0\%+40)$
	60nF/600nF/6uF/60uF/600uF	$\pm(3.5\%+20)$
	6mF	$\pm(5.0\%+10)$
	60mF/100mF	$\pm 10\%$
Frequency	10/100/1000/10k/100k/1M/20MHz	$\pm(0.5\%+10)$
Celsius	-20~1000°C (-4~1832)°F	$\pm(1.0\%+5)$

Special Function	
NCV	✓
Flashlight	✓
Diode	✓
Transistor	✓
Continuity buzzer	✓
Low battery indication	✓
Data Hold	✓
Auto power off	✓
Analog bar graph	✓
Shockproof protection	✓
Function protection	1%~99.9%
Input impedance	10MΩ
Auto power off	3 times/s
Analog bar graph	40~400Hz
Shockproof protection	Auto range
Function protection	3999
Input impedance	65×35mm

VICTOR VC97 3 5/6 Auto Range Digital Multimeter

Comprehensive Characteristics

- Large LCD makes the reading clearly. Backlight.
- Metallic screen board with stronger antimagnetic and anti-interferential function.
- Full function protection, anti-high voltage circuit design.
- Working environment: (0~40) °C, relative humidity<75% RH;
- Storage environment: -20~60 °C, relative humidity<85% RH;
- True RMS
- NCV

Technical data

Basic Function	VC97	Accuracy
DC Voltage	60mV/600mV	$\pm(0.5\%+5)$
	6V/60V/600V	$\pm(0.5\%+4)$
	1000V	$\pm(1.0\%+6)$
AC Voltage (True RMS)	60mV/600mV	$\pm(1.0\%+6)$
	6V/60V/600V	$\pm(0.8\%+10)$
	750V	$\pm(1.2\%+10)$
DC Current	600uA/6000uA/60mA/600mA/6A/10A	$\pm(1.2\%+8)$
AC Current	600uA/6000uA/60mA/600mA	$\pm(1.5\%+10)$
	6A/10A	$\pm(2.0\%+5)$
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ	$\pm(0.8\%+4)$
Capacitance	10nF	$\pm(5.0\%+40)$
	100nF/1uF/10uF/100uF/1mF	$\pm(3.5\%+20)$
	10mF	$\pm(5.0\%+10)$
	100mF	$\pm(10\%+0D)$
Frequency/Duty cycle measurement	10Hz~30MHz	$\pm(0.5\%+10)$
Celsius	1%~99.9%	$\pm(2\%+10)$
	-20~1000°C (-4~1830)°F	$\pm(1.0\%+5)$
Special Functions		
Diode	✓	
Transistor	✓	
Continuity buzzer	✓	
Low battery indication	✓	
Data Hold	✓	
Auto power off	✓	
Sampling rate	3 times/s	
Shockproof protection	Auto range	
Function protection	5999	
Volume (size)	(189 x 88 x 56) mm	
Weight	Approximately 385g (including battery)	
Power supply	Four 1.5V AAA batteries	

VC97 2024

New Model



970

New Model



VICTOR 970 3 5/6 Digital Multimeter

This instrument is a highly reliable automatic 6000 word counting device with a 2.4-inch color screen display, full range overload protection, and patented appearance design. It is a practical electrical measuring instrument with superior performance. This instrument can be used to measure AC/DC voltage and current, resistance, capacitance, diodes, circuit on/off, frequency, and duty cycle. It has functions such as data hold, automatic/manual range conversion, relative value measurement, battery level indication, and automatic shutdown (APO).

Technical Specifications

Basic Function	Range	Accuracy
DC Voltage	60mV/600mV	$\pm(0.5\%+5)$
	6V/60V/600V	$\pm(0.5\%+4)$
	1000V	$\pm(1.0\%+6)$
AC Voltage	60mV/600mV	$\pm(1.0\%+6)$
	6V/60V/600V	$\pm(0.8\%+10)$
	750V	$\pm(1.2\%+10)$
DC Current	600uA/6000uA	$\pm(1.0\%+10)$
	60mA/600mA	$\pm(1.2\%+8)$
AC Current	6A/10A	$\pm(1.2\%+10)$
	600uA/6000uA/60mA/600mA	$\pm(1.5\%+10)$
	6A/10A	$\pm(2.0\%+5)$
Resistance	600Ω	$\pm(0.8\%+5)$
	6kΩ/60kΩ/600kΩ/6MΩ	$\pm(0.8\%+4)$
	60MΩ	$\pm(1.2\%+10)$
Capacitance	6nF	$\pm(5.0\%+10)$
	60nF/600nF	$\pm(2.0\%+5)$
	6uF/60uF/600uF/6mF/60mF	$\pm(5.0\%+5)$
Frequency	100Hz~10MHz	$\pm(0.1\%+3)$

Features	
Display mode	2.4-inch color screen display
Max display	5999 (3 5/6 digits)
Sample Rate	About 3 times per second
OVER RANGE	Display 'OL' at the highest position
Low voltage	have
Diode tube	have
Data hold	have
On/off buzzing	have
Auto shutdown	About 15 minutes after startup
POWER	2000mAh lithium battery Type-C charging
Size	166*83*35mm
Weight	Approximately 303g (including battery and protective cover)

Technical data

Basic Function	Range	Basic accuracy 81B	81D
DC Voltage	200mV/2V/20V/200V/600V	$\pm(0.5\%+4)$	
	400mV/4V/40V/400V/600V		$\pm(0.5\%+4)$
AC Voltage	200mV/2V/20V/200V/600V	$\pm(0.8\%+6)$	
	4V/40V/400V/600V		$\pm(0.8\%+6)$
DC Current	200uA/2000uA/20mA/200mA/10A	$\pm(1.0\%+10)$	
	400uA/4000uA/40mA/400mA/10A		$\pm(1.0\%+10)$
AC Current	200uA/2000uA/20mA/200mA/10A	$\pm(1.5\%+10)$	
	400uA/4000uA/40mA/400mA/10A		$\pm(1.5\%+10)$
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ	$\pm(0.8\%+4)$	
	400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ		$\pm(0.8\%+4)$
Capacitance	4nF/40nF/400nF/4uF/40uF/100uF/1000uF		$\pm(3.5\%+8)$
Frequency	1Hz/10Hz/100Hz/1kHz/10kHz/100kHz/30MHz		$\pm(0.5\%+10)$
Celsius	(-20~1000)°C	$\pm(1.0\%+5)$	$\pm(1.0\%+5)$
Fahrenheit	(0~1832)°F	$\pm(1.0\%+5)$	$\pm(1.0\%+5)$

Special Function	81B	81D
Diode test&Continuity buzzer	✓	✓
Low battery indication	✓	✓
Data hold	✓	✓
Auto power off	✓	✓
Function protection	✓	✓
10A fuse	✓	✓
Shock proof protection	✓	✓
Self-resume fuse protection for mA	✓	✓
Unit symbol display	✓	✓
Max. Value measurement	✓	
Relative value measurement		✓
Duty cycle measurement		0.1%~99.9%
Input impedance	10MΩ	10MΩ
Sampling rate	3 time/s	3 time/s
AC Frequency response	(50-200)Hz	(50-200)Hz
Operation way	Auto/Manual range	Auto range
Max.Display	3 1/2 (1999)	3 3/4 (3999)
LCD size	57×33mm	57×33mm
Battery	3V(1.5×2)	3V(1.5×2)

General Characters

Product color	Case: black ; Holster color: orange
Product Net Weight	Approx:200g(including battery)
Product dimension	145×80×30mm
Standard Accessories	Test leads; battery; instruction manual ; TP01 K style temperature probe
Standard inner packing	Color box
Standard Quantity Per Carton	60PCS
Carton size	470×325×35mm
Standard Gross Weight	Approx:20kg

81B



3 1/2



81D



RMS

3 3/4



VC9801A+

New Model



VC9804A+

New Model



VC9805A+

New Model



Technical data

Basic Function	Range	VC9801A+ VC9802A+	VC9804A+	VC9805A+	VC9808+
DC Voltage	200mV	±(0.5%+5)			
	2V/20V/200V	±(0.5%+3)			
	1000V	±(1.0%+10)			
AC Voltage	200mV	*	±(0.8%+5)		
	2V/20V/200V	±(0.8%+5)			
	750V	*	±(1.2%+10)		
	1000V	±(1.2%+10)	*		
DC Current	200uA/2mA/20mA/200mA	±(1.2%+8)			
	2A	±(1.5%+10)	*		
	20A	±(2.0%+5)			
	200uA/2mA/20mA	*	±(1.5%+15)		
AC Current	200mA	±(1.5%+15)			
	2A	±(2.0%+5)	*		
	20A	±(3.0%+10)			
	200Ω	±(0.8%+5)			
Resistance	2kΩ/20kΩ/200kΩ/2MΩ	±(0.8%+3)			
	20MΩ	±(1.0%+25)			
	200MΩ	±(5.0%+30)			
	2nF	*	±(3.5%+20)	*	
Capacitance	20nF/200nF/20uF/200uF	*	±(3.5%+20)		
	2mF/20mF	*	±(5.0%+10)	*	
	100mF	*	Unspecified		
	6nF	±(5.0%+40)	*		
Frequency	60nF/600nF/6uF/60uF	±(3.5%+20)	*		
	600uF/6mF	±(5.0%+10)	*		
	20mF	±(5.0%+40)	*		
	10Hz	*	±(1.0%+10)		
	100Hz	*			
	1kHz	*			
	10kHz	*			
	100kHz	*			
	10MHz	*	±(1.0%+10)	*	
	20MHz	*	±(1.0%+10)		
Temperature	(-20~1000)°C	*	<400C ±(1.0%+5) ≥400°C ±(1.5%+15)		
	(-4~1832)°F	*	<752°F ±(1.0%+5) ≥752°F ±(1.5%+15)		
Inductance	2mH/20mH/200mH	*	±(2.5%+30)		
	2mH/20mH	*	±(5.0%+20)		

Special Function	
Diode/Transistor	√
Triode hEE	√
Continuity Buzzer	√
Low battery indication	√
Data Hold	√
Auto power off	√
Backlight	√
Function protection	√
200mA protection	√
NCV	√
Flashlight	√

Basic Function	Range	Accuracy		
Model		VC980+	VC9806+	VC9807A+
DC Voltage	200mV/2V/20V/200V	±(0.5%+5)		±(0.1%+5)
	1000V	±(1.0%+10)		±(0.2%+5)
	200mV	±(1.0%+25)		
AC Voltage	2V/20V/200V	±(0.8%+25)		
	750V	±(1.2%+50)		
	200uA/2000uA/20mA	±(0.5%+4)		
	200mA	±(0.8%+6)		
DC Current	2A	±(2.0%+15)	*	
	20A	±(2.0%+15)		
	20mA/200mA	±(1.5%+15)		
AC Current	20A	±(2.5%+35)		
	200Ω	±(0.3%+10)	±(0.4%+10)	
	2kΩ/20kΩ/200kΩ	±(0.3%+5)	±(0.4%+5)	
Resistance	2MΩ	±(1.2%+25)		
	20MΩ/200MΩ	±(5.0%+45)		
	20nF	±(5.0%+50)		
	200nF/2uF/20uF/200uF/2mF	±(4.0%+50)		
Capacitance	20mF/200mF	Unspecified		
	200Hz~2MHz	±(1.0%+3)		
	> 20.000MHz	Unspecified		
Frequency	Duty cycle	5.0% ~ 95.0%(<10KHz@3Vpp)		

AC voltage	Frequency range	Resolution	980+
200.00mV	40Hz ~ 400Hz	0.01mV	±(1.5%+25)
	401Hz ~ 20kHz		±(2.5%+60)
2.0000V	40Hz ~ 400Hz	0.0001V	±(0.8%+25)
	401Hz ~ 20kHz		±(2.5%+60)
20.000V	40Hz ~ 400Hz	0.001V	±(0.8%+25)
	401Hz ~ 20kHz		±(2.5%+60)
200.00V	40Hz ~ 400Hz	0.01V	±(0.8%+25)
	401Hz ~ 5kHz		±(1.5%+25)
750.0V	40Hz ~ 200Hz	0.1V	±(1.0%+25)
	201Hz ~ 1kHz		±(1.5%+25)

Note: The VC980+instrument extends frequency response and can accurately measure the effective values of various voltage waveforms

Conductivity measurement(only VC9806+/9807A+)

Range	Resolution	Display Range	Open circuit voltage
(0.01 ~ 100)nS	0.01nS	±(1.0%+30)	-1.02V

General characteristics			
Max Display	19999 (4) ½ Bit	True effective value	Only 980+
On/off buzzing	√	Low voltage prompt	√
Sound and light alarm	√	Over range	Display "OL"
Data retention	√	Sampling rate	2.8 times /second
Backlight	√	Hz% mode key	Only 9806+/9807A+
Relative value	√	work	(0~40)°C<75% RH
Low pass filtering	√	storage	(-20~60)°C<85% RH
Max/min	Only 980+	source	Four AAA batteries
Automatic shutdown	about 15 minutes	size	189*88*56mm
Diode/transistor	√	weight	400g

VC980+

New Model



VC9806+

New Model



VC9807A+

New Model



9820

New Model



VICTOR 9820 HIGH-VOLTAGE MULTIMETER

The instrument has the function of measuring DCV, ACV, DCA, ACA, resistance, capacitance, frequency, diode, continuity test, temperature and automatic power off, backlight, and DCV and ACV up to 2000V. The instrument takes dual-integral A/D converter as key point, it is an excellent tool.

Technical Specifications

Basic Function	Range	Accuracy
DC Voltage	600mV	$\pm(0.5\%+5)$
	6V/60V/600V/1000V	$\pm(0.5\%+4)$
	2000V	$\pm(1.0\%+6)$
AC Voltage	6V/60V/600V/750V	$\pm(0.8\%+10)$
	2000V	$\pm(1.2\%+10)$
DC Current	600uA/6000uA	$\pm(1.0\%+10)$
	60mA/600mA	$\pm(1.2\%+10)$
AC Current	600uA/6000uA/60mA/600mA	$\pm(1.5\%+10)$
Resistance	600Ω	$\pm(0.8\%+5)$
	6kΩ/60kΩ/600kΩ/6MΩ	$\pm(0.8\%+4)$
	60MΩ	$\pm(1.2\%+10)$
Capacitance	10nF	$\pm(5.0\%+40)$
	100nF/1uF/10uF/100uF	$\pm(3.5\%+20)$
	1mF	$\pm(5.0\%+10)$
	20mF	$\pm(10\%+0d)$
Frequency	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz/10MHz	$\pm(0.5\%+10)$
Temperature	$(-20\sim1000)^{\circ}\text{C}/(-4\sim1832)^{\circ}\text{F}$	$\pm(1.5\%+15)$

Features	
Display method	LCD display
Operation	Auto Range
Max Display	5999 (3 5/6 digits)
Diode	√
Data retention	√
Overload indication	OL
Low voltage prompt	√
On/off buzzing	√
Flashlight	√
NCV	√
Relative value	√
Backlight display	√
work environment	0~40 °C < 75% RH
Sampling rate	3 times/second
Automatic shutdown	√
Unit symbol	√
Input impedance	10MΩ
source	4 AAA batteries
Product size	186*92*52mm
Product weight	395g



2003A/2004A/2006A



Two-channel Function/ Arbitrary Waveform Generator

These series two-channel function/arbitrary waveform generator is equipped with direct digital synthesis (DDS) technology which enables output signal to be stable and accurate.

Key Features

- 3.5-inch 480×320TFT LCD with clear graphic interface
- Chinese / English menu available
- Press key for help and information
- File management supporting USB flash disk and local storage
- Two-channel output with the highest output frequency is "2003A" Model is 25MHz, "2004A" Model is 40MHz, "2006A" Model is 60MHz.
- Sampling rate: 200MSa/S, vertical resolution: 13 bit and storage depth: 8k
- 5 basic waveforms and 32 arbitrary waveforms in-built
- Pulse wave output set in edge time
- Internal/external AM, FM, PM, ASK, FSK and PSK modulation function
- Output of linear/logarithmic frequency sweep and burst waveform
- Frequency meter of high precision of 100MHz and 32-bit counter
- With RS232 interface, USB Device, USB Host interface supporting USB flash disk storage (USB Host Optional)
- Multi-functional arbitrary waveform editing software equipped



General Technical Specifications

- Supply voltage:220V±10%, 45~65Hz, Or 110V±10%, 45~65Hz
- Power consumption:< 15W
- Types:3.5-inch TFT LCD screen, Resolution480×320, 16M color
- Environment:Operation 10℃ ~ +40℃, Non-operation -10℃ ~ +60℃
- Humidity range:Within the range of 0 ~ 40℃, ≤90% relative humidity
- Interface:RS232, USB Device; USB Host(optional)
- Display: 3.5 inch TFT LCD screen, 480 x 320 resolution
- Size: 265 * 105 * 305 mm (width x height x deep)
- Weight: 2.6 kg

Accessories

- Standard accessories:**
- 1 piece of 30A51 three-wire power line;
 - 1 piece of 33A52 BNC coaxial cable;
 - 1 CD-ROM
 - 1 User guide.

- Optional accessories:**
- BNC alligator clip line (33P01);
 - Cabinet installation suit (32P02);
 - RS232 serial line (32P04);
 - USB data line (32P05).

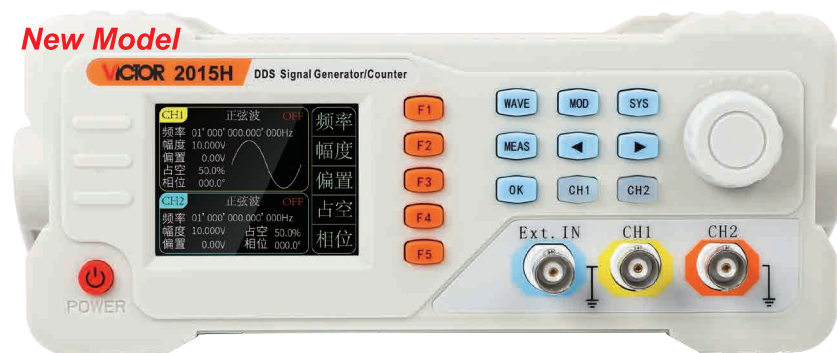
Technical Specifications

Frequency Characteristics			
MODEL	2003A	2004A	2006A
Sine	1μHz ~ 25MHz	1μHz ~ 40MHz	1μHz ~ 60MHz
Square	1μHz ~ 15MHz	1μHz ~ 15MHz	1μHz ~ 15MHz
Triangle	1μHz ~ 15MHz	1μHz ~ 15MHz	1μHz ~ 15MHz
Pulse	100μHz ~ 6MHz	100μHz ~ 6MHz	100μHz ~ 6MHz
Arbitrary	1μHz ~ 6MHz	1μHz ~ 6MHz	1μHz ~ 6MHz
Noise (-3dB)	7MHz Bandwidth		
Frequency Resolution	1μHz		
Frequency Accuracy	±5ppm		
Frequency Stability	±1ppm/3hour		
Frequency Characteristics			
Waveform Types	Sine, square, triangle, pulse, noise and arbitrary waves (including DC). There are 32 kinds of arbitrary waves and 50 kinds of user-defined waves.		
Waveform Length	8192 points		
Waveform Sampling Rate	200 MSa/s		
Waveform Vertical Resolution	13 bits		
Sine Wave Characteristics			
Sine Wave	Harmonic Distortion	≥45dBc(<1MHz);≥40dBc(1MHz~20MHz)	
	Total Harmonic Distortion	<0.8%(20Hz ~ 20kHz, 0dBm)	
Square Wave Signal Characteristics			
Square Wave	Rise/Fall	<20ns	
	Overshoot	<5%	
	Duty Cycle	freq<100kHz: 1%~99%;100kHz≤freq<5MHz: 20% ~ 80%; 5MHz≤freq: 40% ~ 60%(0.1% resolution)	
Pulse Wave Characteristics			
Pulse Wave	Pulse Width	Min 20ns; 1ns resolution	
	Edge Transition Time	Min 20ns;	
	Overshoot	<5%	
	Jitter	6ns+0.1% Period	
Ramp Wave	Linearity Degree	≥98%(0.01Hz~10kHz)	
	Symmetry	0.0 ~ 100.0%(resolution 0.1%)	
Output Characteristics			
Amplitude			
Amplitude Range	freq< 10MHz	10MHz≤freq< 30MHz	30MHz≤freq
	2mVpp ~ 20Vpp	2mVpp ~10Vpp	2mVpp ~5Vpp
Amplitude Resolution	1mV		
Amplitude Stability	±1% set value±1mVpp(1kHz Sine,0 offset,>10mVpp)		
Amplitude Flatness (relative to 1K Sine, 1 Vpp)	±0.4dB <10MHz;		
	±1.0dB ≥10MHz.		
Output Impedance	50Ω±10%(Typical)		
Protection	All the signal output terminal can be shorted within 60s		
DC Offset			
Offset Adjusting Range	Output Amplitude>0.1V	2mV<Output Amplitudes0.1V	
	±10Vpk, ac + dc	±0.250Vpk, ac + dc	
Offset Resolution	1mV		

External Measurement Function			
Frequency Meter	Frequency measurement range	1Hz ~ 100MHz	
	Measurement accuracy	Gate time continuously adjusted between 0.01s~10s	
	Counting region	0 ~ 4294967295	
Counter Function	Control mode	Manual operation	
	Input Signal Voltage Range	2Vpp~20Vpp	
Coupled Mode	AC or DC		
Pulse Width Measurement	1ns (resolution), 20s (MAX measuring time)		
Period Measurement	1ns (resolution), 20s (MAX measuring time)		
SYNC Output		Trigger Input	
Output Channel	CH1 or CH2, default CH1	Signal Range	2Vpp~20Vpp
Level	TTL	Coupling	AC or DC
Impedance	50Ω	Pulse Width	>100ns
Rise/Fall Time	< 25ns	Reaction Time	<500ns (Burst)
Maximum Frequency	25MHz		<10μs (Sweep)
Phase characteristics		Modulation Input	
Phase Adjusting Range	0~359.9°	Impedance	1MΩ
Phase Resolution	0.1°	Signal range	±2.5V ac+dc
AM Modulation		FM Modulation	
Output Channel	CH1 or CH2, default CH1	Output Channel	CH1 or CH2, default CH1
Carrier Wave	Sine, square, ramp, pulse and arbitrary waveforms (excluding DC)	Carrier Wave	Sine, square, ramp, pulse and arbitrary waveforms (excluding DC)
Source	Internal/External	Source	Internal/External
Modulation Wave	Sine, square, triangle and ramp	Modulation Wave	Sine, square, triangle and ramp
Modulation Frequency	2mHz~20kHz	Modulation Frequency	2mHz~20kHz
Modulation Depth	0%~120%	Frequency Offset	0~Maximum carrier frequency
PM Modulation		ASK Modulation	
Output Channel	CH1 or CH2, default CH1	Output Channel	CH1 or CH2, default CH1
Carrier Wave	Sine, square, ramp, pulse and arbitrary waveforms (excluding DC)	Carrier Wave	Sine, square, ramp, pulse and arbitrary waveforms (excluding DC)
Source	Internal/External	Source	Internal/External
Modulation Wave	Sine, square, triangle and ramp	Modulation Wave	Square wave of 50% duty ratio
Modulation Frequency	2mHz~20kHz	Keying Frequency	2mHz~1MHz
Phase Offset	0°~ 360°	Modulation Amplitude	0~Carrier Amplitude
FSK Modulation		PSK Modulation	
Output Channel	CH1 or CH2, default CH1	Output Channel	CH1 or CH2, default CH1
Carrier Wave	Sine, square, ramp, pulse and arbitrary waveforms (excluding DC)	Carrier Wave	Sine, square, ramp, pulse and arbitrary waveforms (excluding DC)
Source	Internal/External	Source	Internal/External
Modulation Wave	Square wave of 50% duty ratio	Modulation Wave	Square wave of 50% duty ratio
Keying Frequency	2mHz~1MHz	Keying Frequency	2mHz~1MHz
Hop Frequency	Carrier frequency range	Modulation Phase	0°~ 360°
Frequency Sweep		Burst Characteristics	
Output Channel	CH1 or CH2, default CH1	Output Channel	CH1 or CH2, default CH1
Types	Linearity/Logarithm	Carrier Wave	Sine, square, ramp, pulse and arbitrary waveforms (excluding DC)
Sweep Frequency Time	1ms ~ 500.000s	Pulse Count	1~65535 or infinite, gated
Start/Stop Frequency	1μHz~Maximum carrier frequency	Start/Stop Phase	0~360°
Sweep Direction	Forward, Backward	Internal Period	1μs~500s
Trigger Source	Manual operating, internal, external	Gating Source	External
		Trigger Source	Internal, external, manual operating

2015H/2040H/2060H

New Model



Technical data

Model	2015H	2040H	2060H
Sine wave	1μHz~ 20MHz	1μHz ~ 40MHz	1μHz ~ 60MHz
Square wave	1μHz ~ 15MHz	1μHz ~ 15MHz	1μHz ~ 15MHz
Triangle wave	1μHz ~ 15MHz	1μHz ~ 15MHz	1μHz ~ 15MHz
Pulse wave	100μHz ~ 6MHz	100μHz ~ 6MHz	100μHz ~ 6MHz
Arbitrary	1μHz ~ 6MHz	1μHz ~ 6MHz	1μHz ~ 6MHz
Frequency resolution	1uHz		
Frequency accuracy	±20ppm		
Frequency stability	±1ppm/3hours		
Waveform characteristics			
Waveform type	Sine, Square, triangular wave, pulse,noise, arbitrary wave (including DC).		
Wave length	8192 points		
Waveform sampling rate	200MSa/s		
Waveform vertical resolution	13-bits		
Sine wave characteristics			
Sine wave	Harmonic Suppression	≥45dBc(<1MHz); ≥40dBc(1MHz~20MHz)	
	Total harmonic distortion	<0.8%(20Hz~20kHz,0dBm)	
Square wave signal characteristics			
Square wave	Rise/Fall time	<20ns	
	Overshoot	<5%	
	Duty cycle range	Frequency < 100 KHz: 1% ~ 99%;	
		100kHz≤ frequency <5MHz: 20% ~ 80%;	
5MHz≤ frequency: 40% ~ 60%(0.1% resolution)			
Pulse wave characteristics			
Pulse wave	Pulse width	Minimum 20ns; 1 ns resolution.	
	Edge jumping time	Minimum 20ns	
	Overshoot	<5%..	
	Shaking	6ns±0.1% period cycle	
Sawtooth wave characteristics			
Sawtooth wave	Linearity	≥98%(0.01Hz~10kHz)	
	Symmetry	0.0 ~ 100.0%(resolution 0.1%)	
Trigger Input			
Signal Range	2Vpp~20Vpp		
Coupling	AC or DC		
Pulse Width	>100ns		
Reaction Time	<500ns(Burst)		
	<10μs(Sweep)		
Modulation Input			
Impedance	1MΩ		
Signal Range	±2.5V ac+dc		

Output characteristics

Amplitude	2015H	2040H	2060H
Amplitude range	Frequency <10MHz	10MHz ≤ Frequency ≤ 30MHz	30MHz ≤ Frequency
	2mVpp~20Vpp	2mVpp~10Vpp	2mVpp~5Vpp
Amplitude resolution	1mV		
Amplitude accuracy	1% +2mVpp of set value (1kHz sine wave, 0 offset, >10mVpp)		
Amplitude flatness (Relative to 1k sine wave, 1Vpp)	±0.4dB <10MHz ; ±1.0dB ≥10MHz		
Output impedance	50Ω±10% (typical)		
Protection	All signal outputs can work within 60 when the load is short-circuited.		
Offset			
Output range	Output amplitude > 0.1V	2mV < Output amplitude ≤ 0.1V	
	±10Vpk, ac + dc	±0.250Vpk, ac + dc	
Offset resolution	1mV		
Phase characteristics			
Phase adjustment range	0~359.9°		
Phase resolution	0.1°		
External measurement function			
Frequency meter function	Frequency measurement range	1Hz~100MHz	
	Gate time	0.01S~10s continuous adjustment	
Counter function	Counting range	0~4294967295	
	Counting method	Manually	
Input signal voltage range	2Vpp~20Vpp		
Coupling	DC or AC		
Pulse width measurement	1ns resolution, maximum measurable 20s		
Period measurement	1ns us resolution, maximum measurable 20s		

AM Modulation		FM Modulation	
Output channel	CH1 or CH2	Output Channel	CH1 or CH2
Signal Carrier	Sine, square, sawtooth, pulse and arbitrary waveforms (excluding DC)	Carrier Wave	Sine, square, sawtooth, pulse and arbitrary waveforms (excluding DC)
Source	Internal/External VCO (external is optional)	Source	Internal/External (external is optional)
Modulation Wave	Sine, square, triangle and ramp	Modulation Wave	Sine, square, triangle and ramp
Modulation Frequency	2mHz~20kHz	Modulation Frequency	2mHz~20kHz
Modulation Depth	0%~120%	Frequency Offset	0~Maximum carrier frequency
PM Modulation		ASK Modulation	
Output Channel	CH1 or CH2	Output Channel	CH1 or CH2
Carrier Wave	Sine, square, sawtooth, pulse and arbitrary waveforms (excluding DC)	Carrier Wave	Sine, square, sawtooth, pulse and arbitrary waveforms (excluding DC)
Source	Internal/External (external is optional)	Source	Internal/External
Modulation Wave	Sine, square, triangle and ramp	Modulation Wave	Square wave of 50% duty ratio
Modulation Frequency	2mHz~20kHz	Keying Frequency	2mHz~1MHz
Phase Offset	0°~360°	Modulation Amplitude	0~Carrier Amplitude
FSK Modulation		PSK Modulation	
Output Channel	CH1 or CH2	Output Channel	CH1 or CH2
Carrier Wave	Sine, square, sawtooth, pulse and arbitrary waveforms (excluding DC)	Carrier Wave	Sine, square, sawtooth, pulse and arbitrary waveforms (excluding DC)
Source	Internal/External	Source	Internal/External
Modulation Wave	Square wave of 50% duty ratio	Modulation Wave	Square wave of 50% duty ratio
Keying Frequency	2mHz~1MHz	Keying Frequency	2mHz~1MHz
Hop Frequency	Carrier frequency range	Modulation Phase	0°~360°

General Technical Specifications

Power Supply	
Supply Voltage	AC 110~240V, 50~60Hz
Power Consumption	<15W
Display	
Types	2.4-inch TFT LCD screen
Resolution	320×240
Color	16M color
Environment	
Temperature Range	Operation: 10°C~+40°C Non-operation: -10°C~+60°C
Cooling Methods	Natural cooling
Humidity Range	Below +35°C: ≤90% relative humidity, +B14035°C ~ +40°C: ≤60% relative humidity
Interface	USB Device

3010

New Model



3021

New Model



7244

New Model



Technical data

Model	3010	3021	7244
DC V	2.5V/10V/25V/50V/250V/1000V 0.1V/0.5V/2.5V/10V/50V/250V/1000V 0.1V/0.5V/2.5V/10V/50V/250V/500V	±3%	±3%
AC V	10V/50V/250V/1000V 10V/50V/250V/500V	±4%	±4%
DC A	50uA/0.5mA/5mA/50mA/500mA/10A 50uA/2.5mA/25mA/0.25A/10A 50uA/2.5mA/25mA/250mA/10A	±3%	±3%
Resistanc	X1/X10/X100/X1k/X10kΩ X1/X10/X100/X1k/X100kΩ	±3%	±3%
Special functions			
Dry cell measurement		✓	
Diode test		✓	✓
Triode test	✓	✓	
Audio level measurement dB	✓	✓	✓
On off test	✓	✓	✓
line protection	✓	✓	✓
Input impedance	(9~20)kΩ	(9~20)kΩ	(9~20)kΩ
Basic parameters			
Power Supply	AAA - 9V	AAA	AAA - 9V
Body color	Black+orange		
Body weight	About 225g (including battery)		
Body size	160X101.5X40mm		
Standard accessories	Test probe/manual		
Standard inner packaging	Color box		

Technical data

Inductance(L) Range	6243 Accuracy	Capacitance/Resistance/Inductance Resolution	Measuring frequency
2mH	±(2.0%+5d)	1uH	Approx:200Hz
20mH		10uH	
200mH		100uH	
2H	±(5.0%+5d)	1mH	
20H	±(5.0%+15d)	10mH	
2nF	±(1.0%+5d)	1pF	Approx:200Hz
20nF		100pF	
2uF	±(2.0%+5d)	1 nF	Approx:16Hz
20uF		10 nF	
200uF		100 nF	
1000uF	±(5.0%+25d)	1uF	Approx:8Hz

General Characters

Product Net Weight	380g (including battery)
Product dimension	189×97×35mm
Carton size	465×317×506mm
Standard Quantity Per Carton	30PCS

Technical data

Capacitance (C)			6013 Capacitance (C)	
Range	Resolution	Max. displaying in the ranges	Measuring frequency	Accuracy
200pF	0.1pF	199.9 pF	800Hz	±(0.5%+7)
2nF	1pF	1.999nF		
20nF	10pF	19.99nF		
200nF	100pF	199.9nF		
2uF	1000pF	1.999uF		
20uF	0.01uF	19.99uF	80Hz	±(2%+5)
200uF	0.1uF	199.9uF	8Hz	
2000uF	1uF	1999uF	8Hz	
20000uF	10uF	1999(×10)uF	8Hz	±(3%+10)

Special Function

Low battery indication	✓
Function protection	✓
Zero manual	✓
Overload protection	✓
Backlight	✓
Max. display	1999 (3 1/2LCD display)
Sampling rate	(0~5) time/s
Environment/Relative Humidity	0℃~40℃/Relative Humidity<80%
Over-range display	Max display "1"
Size	189×97×35mm
Weight	320g
Power	9V (6F22)

Range	VICTOR 6013B	Accuracy	Resolution
300Ω/3KΩ/30KΩ/300KΩ		±(1.0%+5d)	0.1Ω
3MΩ/30MΩ		±(2.0%+5d)	
3nF/30nF/300nF/3μF/30μF/300μF		±(3.0%+5d)	0.1nF
3mF/30mF		±(5.0%+5d)	

General Features	6013B
Low Battery Indication	✓
Auto Power Off	✓
Data Hold	✓
Max. Display	2999
Sampling Rate	3 times/s
Operation Temperature / Humidity	0℃~40℃; Humidity<80%
Over Range Indication	LCD "OL"
Product Size	175×34×18.5mm
Product Weight	68.5g

6243



3 1/2



6013



3 1/2



6013B



Technical data

Handheld LCR meter	4080	4082
Testing frequency	100Hz, 120Hz, 1KHz, 10KHz, 40KHz, 100KHz	100Hz-100KHz adjustable, step from 1Hz
Basic accuracy	0.3%	0.2%
Electrolytic capacitor mode	√	√
DCR mode	×	√
Bias Voltage	×	0-500mV can be adjustable, step from 1mV
Electric level	0.6Vrms	0-0.7V adjustable
Screen	2.8 inches TFT LCD	
Digits display	Main parameter: 5 digits; auxiliary parameter: 5 digits	
Measuring parameters		
Main parameter	L/C/R/Z	
Auxiliary parameter	X/D/Q/ESR	
Measuring Range	(L) 0-2000H	
Measuring Range	(C) 0-20mF	
Measuring Range	(R) 0-20MΩ	
Measuring speed	1 time/s (slow), 2 times/s (moderate), 4 times/s (fast)	
Calibration function	Open circuit calibration, short circuit calibration	
Filtering function	Limit scope 1%~50% can be set; 1%, 5%, 10%, 20% are the fix points	
errors measurement	is use for comparing the percent errors between components and nominal value, meanwhile display	
others	Backlight luminance can be adjustable; USB device and auto power off can be set	
Standard Accessories	Mini-USB cable; power adapter; short-circuit plate; Kelvin test fixture Lithium battery with large capacity	

4080/4082



Main Features

10Hz ~ 1MHz of test frequency
 6 and a half digits of measurement resolution
 Internal $\pm 2V$ of DC bias voltage
 0.05% basic measurement accuracy
 automatic, manual, external trigger and bus trigger measurement
 dual measurement display
 measurement in absolute form or reference value based deviation measurement
 accurate four-wire fixtures
 categories of components
 up to $\pm 60V$ of DC external bias voltage
 internal memory
 7-inch LCD color display
 visual user interface, comprehensive test functions
 providing RS232, HANDLER, GPIB, LAN, and USB Interfaces

4092A



4092B



4092C



4092D



4092E



4090A/4090B/4090C



4091A/4091B/4091C

Technical data

LCR meter	4090A	4090B	4090C	4091A	4091B	4091C
Testing frequency	10 points (100, 120, 200, 400, 800, 1K, 2K, 4K, 8K, 10K)	12 points (100, 120, 200, 400, 800, 1K, 2K, 4K, 8K, 10K, 15K, 20K)	16 points (100, 120, 200, 400, 800, 1K, 2K, 4K, 8K, 10K, 15K, 20K, 40K, 50K, 80K, 100K)	10~10KHz continuous adjust, stepping: 1Hz	10~20KHz continuous adjust, stepping: 1Hz	10~100KHz continuous adjust, stepping: 1Hz
Screen	3.5 inches TFT LCD					
Digits display	Main parameter: 5 digits; auxiliary parameter: 5 digits					
Measuring parameters	Main parameter: L/C/R/Z; auxiliary parameter: X/D/Q/θ/ESR					
Measuring Range (L)	0.01 μH - 9999H					
Measuring Range (C)	0.01pF - 99.999mF					
Measuring Range (R)	0.0001Ω - 99.999MΩ					
Basic accuracy	0.2%					
Measuring speed	2 times/s (slow), 4 times/s (moderate), 8 times/s (fast)					
Bias Voltage	0-1500mV can be adjustable, stepping: 1mV					
Calibration function	Open circuit calibration, short circuit calibration					
Filtering function	Limit scope -50% ~ +50% can be set; 1%, 5%, 10%, 20% are the fix points					
Interface	Standard accessories RS232(or 485), USB Device, Handle, optional accessories GPIB, USB host					
Others	DCR and electrolytic capacitor measuring mode are available; Backlight luminance can be adjustable, Chinese or English mode are optional					

Technical indicators

Model	A Type	B Type	C Type	D Type	E Type
Frequency Range	10Hz~100kHz	10Hz~200kHz	10Hz~300kHz	10Hz~500kHz	10Hz~1MHz
Frequency Resolution	Frequency Resolution: 1mHz				
Accuracy	Frequency Accuracy: 0.01%				
Measurable parameters	Cp-D/Q/G/Rp, Cs-D/Q/Rs, Lp-D/Q/G/Rp, Ls-D/Q/Rs, Rs-Xs, Z-θ, Y-θ, G-B				
Measurement time (Fast / medium speed)	200ms/500ms @ 10Hz 100ms/500ms @ 50Hz 20ms/200ms @ ≥ 100 Hz				
Custom time range	100ms/2000ms @ 10Hz 20ms/2000ms @ 50Hz 20ms/2000ms @ ≥ 100 Hz 5ms/2000ms @ ≥ 1 kHz				
Test signal level (1mVrms stepping)	10mVrms to 2Vrms 100μArms to 20mArms				
Constant voltage level	10mVrms-1Vrms				
Constant current level	100μArms-10mArms				
DC bias capability	Internal -2V to +2V voltage bias External bias input (within $\pm 60V$)				
Internal resistance of signal source	30 Ohm, 100 Ohm are optional				
Basic accuracy	0.05%				
Display resolution	6 digits and a half				
Comparator	9 groups of qualification level, 1 group of unqualification level, 1 group of auxiliary level				
Correction	Self correction, open/short circuit frequency sweep, 100 sets of specified frequency points				
List sweep	List sweep test for 100 points				
Storing device	Internal/USB memory				
Remote control	GPIB, LAN, RS232, USB, Handler				



FUNCTION	6019D	6019E	Accuracy	616A	616B	Accuracy
DCV	600mV/6V/60V/600V	600mV/6V/60V/600V	± (0.5%+3)	600mV	600mV	± (0.8%+3)
	1000V	1000V	± (0.8%+10)	6V/60V	6V/60V	± (0.5%+3)
	6V/60V/600V	6V/60V/600V	± (0.8%+3)	600mV/6V	600mV/6V	± (1.2%+10)
ACV	6V/60V/600V	6V/60V/600V	± (0.8%+3)	60V	60V	± (0.8%+5)
	750V	750V	± (1.2%+10)	600V	600V	± (1.2%+5)
DCA	/	6A/60A	± (2.5%+30)	/	60A	± (2.5%+5)
				/	600A	± (2.5%+10)
ACA	/	600mA	± (2.5%+20)	6A/60A	60A	± (2.5%+8)
	6A/60A/200A	6A/60A	± (2.0%+30)	600A	600A	± (2.5%+10)
RESISTENCE	600Ω	600Ω	± (0.8%+5)	600Ω/6kΩ/60kΩ/600kΩ	600Ω/6kΩ/60kΩ/600kΩ	± (0.8%+3)
	6kΩ/60kΩ/600kΩ/6MΩ	6kΩ/60kΩ/600kΩ/6MΩ	± (0.8%+3)	6MΩ	6MΩ	± (1.2%+3)
	60MΩ	60MΩ	± (2.5%+15)	60MΩ	60MΩ	± (2.5%+5)
CAPACITANCE	6nF	6nF	± (4.0%+50)	6nF/60nF/600nF/6μF	6nF/60nF/600nF/6μF	± (3.0%+10)
	60nF/600nF/6μF/60μF/600μF	60nF/600nF/6μF/60μF/600μF	± (4.0%+20)	60μF/600μF	60μF/600μF	± (5.0%+5)
	6mF/60mF	6mF/60mF	± (5.0%+20)	6mF/60mF	6mF/60mF	± (5.0%+5)
FREQUENCY	/	6Hz~1MHz	± (0.5%+5)	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz/10MHz	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz/10MHz	± (0.3%+3)
TEMPERATURE	-20°C~1000°C (-4~1832)°F	-20°C~1000 (-4~1832)	± (2.0%+5)	-20°C~1000°C (-4~1832)°F	-20°C~1000°C (-4~1832)°F	± (1.0%+5)

Display method	LCD display	LCD display
Maximum Display	5999 count	5999 count
Diode	✓	✓
Data retention	✓	✓
NCV/LIVE	✓	✓
ZERO	✓	616B
Low voltage prompt	✓	✓
Type-C charging	✓	✓
Flashlight lighting	✓	✓
On/off buzzing	✓	✓
Work environment	(0-40)°C <75%	(0-40)°C <75%
Storage environment	(-10~50)°C <80%	(-20~60)°C <80%
Automatic shutdown	✓	✓
Over range display	Display OL	Display OL
Jaws open	32mm	32mm
Frequency response	50Hz~60Hz	50Hz~60Hz
Battery type	3.7V lithium battery	AAA*3 battery
Size	170*64*26mm	192*73*28mm
Weight	146g	225g

FUNCTION	606+	606A+	606B+	606C+	Accuracy
DCV	200mV/2V/20V	600mV/6V/60V	600mV/6V/60V	600mV/6V/60V	± (0.5%+7)
	200V	600V	600V	600V	± (1.0%+20)
	600V	/	/	/	± (1.2%+20)
ACV	2V/20V	6V/60V	6V/60V	6V/60V	± (0.8%+10)
	200V	600V	600V	600V	± (1.2%+25)
	600V	/	/	/	± (1.5%+25)
LOW INPEDANCE ACV	2V/20V	6V/60V	6V/60V	6V/60V	± (0.8%+10)
	200V	300V	300V	/	± (1.2%+25)
	300V	/	/	/	± (1.5%+25)
ACA	/	/	/	300V	± (1.0%+12)
	2A	6A	6A	/	± (4.0%+50)
	20A	60A	60A	/	± (4.0%+35)
DCA	200A/600A	600A	600A	/	± (4.0%+15)
	/	/	/	60A/600A	± (4.0%+10)
	/	/	/	60A/600A	± (4.0%+10)
RESISTENCE	200Ω/2kΩ/20kΩ/200kΩ/2MΩ	600Ω/6kΩ/60kΩ/600kΩ/6MΩ	600Ω/6kΩ/60kΩ/600kΩ/6MΩ	600Ω/6kΩ/60kΩ/600kΩ/6MΩ	± (1.0%+5)
	20MΩ	20MΩ	20MΩ	20MΩ	± (1.5%+15)
	/	60MΩ	60MΩ	60MΩ	± (2.5%+20)
CAPACITANCE	/	6nF	6nF	6nF	± (5.0%+40)
	/	60nF/600nF/6μF	60nF/600nF/6μF	60nF/600nF/6μF	± (5.0%+10)
	/	60μF/600μF/6mF	60μF/600μF/6mF	60μF/600μF/6mF	± (5.0%+10)
FREQUENCY	/	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz/10MHz	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz/10MHz	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz/10MHz	± (0.3%+3)
	/	/	/	/	± (0.3%+3)
	/	/	/	/	± (0.3%+3)
TEMPERATURE	/	/	-20°C~1000°C (-4~1832)°F	-20°C~1000°C (-4~1832)°F	/
	/	/	/	/	/
	/	/	/	/	/

Display method	LCD display	Max/Min	✓
Maximum display	5999 count (606+ 1999count)	Low Z	✓
Diode measurement	✓	Working temperature and humidity	(0-40)°C <75%
Data retention	✓	Storage temperature and humidity	(-10~50)°C <80%
NCV measurement	✓	Automatic shut-down	About 15 minutes
Fire detection	✓	Over-range display	the highest digit displays OL
Low voltage warning	✓	Unit symbol	✓
Flashlight lighting	✓	Open jaws	35mm
True effective value	✓	input resistance	10MΩ
INRUSH	606C+ only	Sampling rate	3 times/sec
VFC	606C+ only	power supply	Two AAA batteries



610B+



610C+

Model	610B+	610C+
DCV	600mV/6V/60V/600V 1000V ±(1.0%+6)	600mV/6V/60V/600V 1000V ±(0.5%+7)
ACV	6V/60V 600V/750V ±(1.0%+10)	6V/60V 600V/750V ±(1.0%+10)
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ 20MΩ ±(1.5%+15)	600Ω/6kΩ/60kΩ/600kΩ/6MΩ 20MΩ ±(1.5%+15)
Low Impedance	6V/60V 300V ±(1.0%+12)	6V/60V 300V ±(1.0%+12)
DCA	60A/600A/1000A ±(4.0%+10)	60A/600A/1000A ±(4.0%+10)
ACA	60A/600A/1000A ±(4.0%+10)	60A/600A/1000A ±(4.0%+10)
Frequency	10Hz~10MHz ±(0.3%+3)	/
Capacitance	1nF 10nF/100nF/1μF/10μF/100μF/1mF/10mF ±(5.0%+10)	/
Temperature	-20°C~1000°C (-4~1832)°F ±(2.0%+5)	/
Continuity alarm	✓	✓
Data hold	✓	✓
Low voltage display	✓	✓
Auto power off	✓	✓
Max/Min	✓	✓
Flashlight	✓	✓
Overload Protection	✓	✓
Living Wire Detecting	✓	✓
INRUSH	✓	✓
VFC	✓	✓
NCV	✓	✓
True RMS	✓	✓
Auto power off	about 15 minutes	about 15 minutes
Display	LCD Display, Max. display 5999 update 3 times/s	LCD Display, Max. display 5999 update 3 times/s
Jaw opening	40mm	40mm
Polarity indicate	Cathode auto display	Cathode auto display
Overload indicate	OL indicating on the LCD	OL indicating on the LCD
Low battery display	⚡ indicating on the LCD	⚡ indicating on the LCD
Operation temperature	0°C~40°C, less than 80%RH	0°C~40°C, less than 80%RH
Storage temperature	-10°C~50°C, less than 80%RH	-10°C~50°C, less than 80%RH
Battery type	(Size AAA) 1.5V×2	(Size AAA) 1.5V×2
Size	230*75*40mm	230*75*40mm
Weight	About 313g	About 313g

Technical data

Model	6050	6052	Accuracy
DC voltage	600mV/6V/60V 600V/1000V	600mV/6V/60V 600V/1000V	±(0.5%+7)
AC voltage	6V/60V 600V/750V	6V/60V 600V/750V	±(1.0%+10)
Low impedance	6V/60V	6V/60V	±(1.0%+10)
AC voltage	300V	300V	±(1.0%+12)
DC current	600A/2000A	600A/2000A	±(4.0%+10)
AC current	600A/2000A	600A/2000A	±(4.0%+10)
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ 20MΩ	600Ω/6kΩ/60kΩ/600kΩ/6MΩ 20MΩ	±(1.0%+5)
Capacitance	1nF 10nF/100nF/1μF/10μF/100μF/1mF/10mF	1nF 10nF/100nF/1μF/10μF/100μF/1mF/10mF	±(5.0%+10)
Frequency	10Hz~10MHz	10Hz~10MHz	±(0.3%+3)
Duty cycle	10.0%~90.0%	10.0%~90.0%	±(0.3%+3)
Temperature	(-20~1000)°C/(-4~1832)°F		±(2.0%+5)

General functions			
Display mode	LCD display	DC current reset	6050 only
Maximum display	5999	Relative value	✓
Diode/on-off	✓	Operating humidity	(0~40)°C <75%RH
NCV	✓	Storage temperature	(-10~50)°C <80%RH
Data retention	✓	Over range display	Highest display OL
Low voltage prompt	✓	AC frequency response	40~1kHz
Line of fire judgment	✓	Jaw opening	58mm dia
Flashlight lighting	✓	Maximum traverse	52mm dia
Max/Min	6052 only	Input impedance	10MΩ
Automatic shutdown	✓	Power Supply	AAA*2 batteries
V.F.C	6050 only	Product size	273*102*47mm
Surge current	6050 only	Product weight	About 420g

Technical data

Basic function	Range	Accuracy
DC Voltage	400mV/4V/40V/400V 1000V	±(0.5%+4d) ±(1.0%+6d)
DC Current	40A 400A 1000A	±(3%+8d) ±(2.5%+8d) ±(3%+10d)
AC Voltage	400mV 4V/40V/400V 750V	±(1.6%+8d) ±(0.8%+10d) ±(1.0%+10d)
AC Current	40A 400A 1000A	±(3.0%+10d) ±(2.5%+8d) ±(3%+10d)
Resistance	400Ω 4kΩ/40kΩ/400kΩ/4MΩ 40MΩ	±(0.8%+5d) ±(0.8%+4d) ±(1.2%+10d)
Capacitance	4nF 40nF/400nF/4μF/40μF 100μF	±(3.5%+30d) ±(3.0%+10d) ±(5.0%+10d)
Frequency	9.999Hz/99.99Hz/999.9Hz/9.999kHz/99.99kHz	±(0.5%+4d)

6050



6052



6056A+



6056C+



Technical data

FUNCTION	6056C+	Accuracy
DCV	600mV/6V/60V	±(0.5%+7)
	600V	±(1.0%+20)
ACV	6V/60V	±(0.8%+10)
	600V	±(1.2%+25)
LOW INPEDANCE ACV	6V/60V	±(0.8%+10)
	300V	±(1.0%+12)
	60A/600A	±(4.0%+10)
	60A/600A	±(4.0%+10)
DCA RESISTENCE	600Ω/6kΩ/60kΩ/600kΩ/6MΩ	±(1.0%+5)
	20MΩ	±(1.5%+15)
	60MΩ	±(2.5%+20)
	6nF	±(5.0%+40)
CAPACITANCE	60nF/600nF/6μF	±(5.0%+10)
	60μF/600μF/6mF	
	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz/10MHz	±(0.3%+3)
FREQUENCY	-20°C~1000°C	/
TEMPERATURE	(-4~1832) °F	

Display method	LCD display	Max/Min	√
Maximum display	5999 count	Low Z	√
Diode measurement	√	Working temperature and humidity	(0~40) °C <75%
Data retention	√	Storage temperature and humidity	(-10~50) °C <80%
NCV measurement	√	Automatic shut-down	About 15 minutes
Fire detection	√	Over-range display	the highest digit displays OL
Low voltage warning	√	Unit symbol	√
Flashlight lighting	√	Open jaws	35mm
True effective value	√	input resistance	10MΩ
INRUSH	√	Sampling rate	3 times/sec
VFC	√	power supply	Two AAA batteries

Technical data

Basic Function	Range	Accuracy
Model	VICTOR 6016B+	
DC Voltage	200mV/2V/20V/200V/600V	±(0.5%+4)
AC Voltage	2V/20V/200V/600V	±(0.8%+10)
AC Current	2A/20A/200A/600A	±(3.5%+5)
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ	±(0.8%+5)
Diode Test	√	
Continuity Buzzer	√	
Low Voltage Indication	√	
Auto Negative Indication	√	
Data Hold	√	
Function Protection	√	
Input Impedance	10MΩ	
Sampling Rate	3 times/s	
AC Current Response	(50~60)Hz	
Operation Way	Manual Range	
Max. Display	1999	
Clamp Size	30mm	
Power	3V(1.5V AAA *2)	

General Features

Product Color	Case: black; Holster: orange
Product Weight	Approx. 140g (including battery)
Standard Accessories	Test Leads, Battery, Instruction Manual
Standard Inner Packing	Color Box
Standard Size Per Carton	455×365×320mm
Standard Quantity Per Carton	40Pcs
Standard Gross Weight Per Carton	Approx. 18kg

6016B+



6056E



3 3/4

Technical data

Basic functions	Range	Basic accuracy
DC voltage	200mV/2V/20V/200V/1000V	± (0.5%+4)
AC voltage	200mV/2V/20V/200V/1000V	± (0.8%+10)
AC Current	40A/400A/1000A	± (3.0%+10)
DC Current	40A/400A/1000A	± (3.0%+8)
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ	± (0.8%+4)
Capacitor	4nF/40nF/400nF/4μF/40μF/200μF	± (3.5%+8)
Frequency	4Hz/40Hz/400Hz/4kHz/40kHz/400kHz/4MHz/30MHz	± (0.5%+10d)
Special features		
Diode test	√	
On-off alarm	√	
Low Voltage Display	√	
Data hold	√	
Automatic power-off	√	
Function protection	√	
Automatic negative polarity	√	
Input Impedance	10MΩ	
Sampling frequency	3 times/s	
AC Current Frequency	(40~400)Hz	
Mode of operation	Auto Range	
Maximum display	3999	
Jaw open	55mm	
Power	9V (6F22)	

General Characteristics

Colors	Case: black
Weight	Approx 388g, include 9V battery
Standard accessories	Test leads, battery, instruction manual, TP01 temperature probe (-40°C ~250°C)
Standard inner packing	Color box
Carton size	210×73×39mm

Technical data

Basic Function	Range	Accuracy
Model	610L	
DCV	10V/100V ; 600V	±(0.5%+5) ; ±(1.0%+10)
ACV	10V/100V ; 600V	±(0.8%+5) ; ±(1.2%+10)
ACA	100A ; 1000A	±(2.5%+30) ; ±(4.0%+10)
ACA-VFC	1000A	±(5.0%+10)
ACA-INR	1000A	±(10.0%+20)
Resistance	100Ω ; 1000Ω ;	±(1.3%+10) ; ±(1.3%+5) ;
	10kΩ/100kΩ ; 1MΩ/10MΩ	±(0.8%+3) ; ±(1.5%+5)
Capacitance	100nF ; 1000nF	±(5.0%+50) ; ±(4.0%+50)
	10μF/100μF/1000μF/10mF	±(3.5%+20)
	100mF ; 2 00mF	±(10.0%+20) ; Not specified

General functions

Display mode	LCD display	Bluetooth	√
Max display	9999	Relative value	√
Diode/On/Off	√	work environment	(0~40)°C <75%RH
NCV	√	Storage environment	(-10~50)°C <80%RH
Data retention	√	Overrange	OL
Backlight	√	AC frequency response	40~400Hz
Low pressure	√	Jaws open	φ40mm
Peak hold	√	Maximum traverse	φ39mm
Flashlight	√	Input impedance	10MΩ
Auto shutdown	√	Power Supply	AAA*2
V.F.C	√	Product size	219*75*34mm
Surge current	√	Product weight	About 240g

610L



615B

DC 2000V
AC 2000V



6015F



Technical data

Model	615B	
Basic Function	Range	Accuracy
DC Voltage	600mV/6V/60V/600V	±(0.5%+7)
	1000V/2000V	±(1.0%+10)
AC Voltage	6V/60V/600V	±(1.0%+10)
	750V/2000V	±(1.0%+12)
Low impedance	6V/60V	±(1.0%+10)
AC voltage	300V	±(1.0%+12)
DC current	60A/600A/1000A	±(2.5%+10)
AC current	60A/600A/1000A	±(2.5%+10)
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ	±(1.0%+5)
	20MΩ	±(1.5%+15)
	60MΩ	±(2.5%+20)
Capacitance	9.999nF	±(5.0%+40)
	99.99nF/999.9nF/9.999uF/99.99uF/999.9uF/9.999mF	±(5.0%+10)
	>10mF	Not specified
Frequency	10Hz~10MHz	±(0.3%+3)
Duty cycle	10.0%~90.0%	±(0.3%+3)
Temperature	(-20~1000)°C/(-4~1832)°F(Standard 250°Cprobe)	±(2.0%+5)

General functions			
Display mode	LCD	Display mode	√
Max display	5999	Max display	√
Diode/on-off	√	Diode/on-off	(0~40)°C <75%RH
NCV	√	NCV	(-10~50)°C <80%RH
Data retention	√	Data retention	Highest display OL
Backlit display	√	Backlit display	40~1kHz
Low voltage	√	Low voltage	φ40mm
Line of fire judgment	√	Line of fire judgment	φ39mm
Flashlight lighting	√	Flashlight lighting	10MΩ
Automatic shutdown	√	Automatic shutdown	Two AAA batteries
V.F.C	√	V.F.C	230*75*40mm
Surge current	√	Surge current	About 313g

Basic Function	Range	Accuracy
DC Voltage	2V/20V/200V/1000V	±(2.0%+5)
AC Voltage	200V/750V	±(1.2%+5)
AC Current	20A/200A/1000A	±(2.0%+5)
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ	±(1.0%+2)
Frequency	2kHz/20kHz	±(3.0%+15)
Diode Test	√	
Continuity Buzzer	√	
Low Battery Indication	√	
Data Hold	√	
Input Impedance	10MΩ	
Sampling Rate	3 times/s	
AC Frequency Response	(50~60)Hz	
Operation Way	Auto range	
Max. Display	1999	
Clamp Size	55mm	
Battery	9V(6FF2)	
Product Net Weight	Approx: 270g	
Standard Accessories	Test leads, battery, instruction manual	
Standard Inner Packing	Color box	
Standard Quantity Per Carton	30pcs	

Technical data

Basic Function	Range	6266
DC voltage	1000V	±(0.8%+2)
AC voltage	750V	±(1.2%+4)
AC Current	200A/1000A	±(3.0%+5)
Resistance	200Ω/20kΩ	±(1.0%+1)

Product color	Case: black
Product net weight	Approx: 310g
Standard accessories	Test leads, battery, instruction manual, TP01 temperature probe
Standard inner packing	Color box
Standard Quantity Per Carton	30pcs/ctn
Carton size	465×317×506mm
Standard Gross Weight	Approx: 16.8kg

Special Function	6266
Continuity buzzer	√
Low battery buzzer	√
Hold	Data hold
Input impedance	10MΩ
Sampling rate	3 times/s
AC Frequency response	(50~60)Hz
Operation way	Manual range
Max. Display	1999
Clamp size	50mm
Power	9V(6FF2)

Technical data

Basic skills	Range	Precision
DC voltage	200mV/2V/20V/200V	±(0.5%+7)
	600V	±(1.0%+20)
AC voltage	2V/20V/200V	±(0.8%+10)
	600V	±(1.2%+25)
DC current	200uA/2000uA/20mA	±(1.2%+3)
	200mA	±(1.5%+3)
AC current	200uA/2000uA/20mA	±(1.8%+3)
	200mA	±(2.0%+3)
	2A	±(4.0%+50)
	20A	±(4.0%+35)
	200A/600A	±(4.0%+15)
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ	±(1.0%+5)
	20MΩ	±(1.5%+15)

Special Function	3218 ⁺	3218A
Continuity buzzer	√	
Diode test	√	
Low battery indication	√	√
Hold	Peak value hold	Data hold
Auto power off	√	√
Lamp	√	√
Function protection	√	√
Input impedance	10MΩ	10MΩ
Sampling rate	3 times/s	3 times/s
AC Frequency response	50Hz~60Hz	50Hz~60Hz
Operation way	Manual range/Auto range	Manual range
Max. Display	1999	1999
Clamp size	30mm	30mm
Power	3V(1.5V×2)	3V(1.5V×2)

6266



3 1/2

New Model

3218⁺

3 1/2



3218A

3 1/2



VICTOR 3266/3266C HIGH-PRECISION DIGITAL CLAMP METER

- LCD display:maximum display 4000, word height 15mm
- General characteristics: Maximum voltage between voltage input terminal and ground CAT II 600V.
- Display method:LCD display, with a maximum reading of 4000
- Measurement principle: Double integral A/D conversion, automatic range
- Measurement rate:3 times/second
- Unit display : with functions and display of unit symbols for electricity consumption



Technical data

3266/3266C

Basic Function	Range	3266	3266C
DCV	4V/40V	±(0.8% reading+2 words)	
	600V	±(1.0% reading+2 words)	
	60mV/600mV/6V/60V		±(0.8% reading+2 words)
	600V		±(1.0% reading+2 words)
ACV	4V/40V	±(1.0% reading+10 words)	
	600V	±(1.2% reading+10 words)	
	600mV/6V/60V		±(1.0% reading+10 words)
	600V		±(1.2% reading+10 words)
ACA	40A/400A/1000A	±(2.5% reading+10 words)	
	60A/400A/1000A		±(2.5% reading+10 words)
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ	±(1.2% reading+2 words)	
	40MΩ	±(2.0% reading+5 words)	
	600Ω/6kΩ/60kΩ/600kΩ/6MΩ		±(1.2% reading+2 words)
	60MΩ		±(2.0% reading+5 words)
DiodeTest		Display the approximate value of forward voltage drop (open circuit voltage is about 2.3V)	
Continuity test		When it is about ≤ 50Ω, the buzzer will sound (open circuit voltage is about 2.1V)	
Capacitance measurement	1nF		±(5% reading+30 words)
	10nF/100nF/1uF/10uF/100uF/1mF		±(3% reading+30 words)
	60mF		±(5% reading+30 words)
Temperature measurement	-20°C~1000°C/-4°F~1832°F		±(1.2% reading+5 words)
Frequency measurement	10Hz~1KHz		±(1.2% reading+3 words)
General characteristics	Maximum voltage CAT II 600V between voltage input terminal and ground		Maximum voltage CAT II 1000V between voltage input terminal and ground
Display method	LCD display, with a maximum reading of 4000		maximum display 6000,
Measurement principle	Double integral A/D conversion, automatic range		
Measurement rate	3 times/second		
Unit display	with functions and display of unit symbols for electricity consumption		
Polarity display	Negative polarity input displays a "-" symbol		
Overrange display	"OL"		
Data remains displayed			
Under voltage indication	"LO"		
Power supply	DC1.5V × 2 SIZE AAA		
External dimensions	222mm × 90mm × 35mm		
Maximum size of jaw opening	45mm		
Operating environment temperature	5°C~35°C		
Storage temperature	-10°C~50°C		
LCD display	maximum display 4000, word height 15mm		maximum display 6000, word height 15mm
NCV	✓		
Flashlight	✓		

Technical Data

Basic Function Model	Range	Accuracy 606D	606E
DC Voltage	400mV/4V/40V/600V	±(0.5%+5)	±(0.5%+5)
AC Voltage	4V/40V/600V	±(1.0%+5)	±(1.0%+5)
DC Current	4A/40A/600A	*	±(2.5%+5)
AC Current	4A/40A/600A	±(2.5%+5)	±(2.5%+5)
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ	±(1.0%+3)	±(1.0%+3)
Capacitance	10nF/100nF/1uF/10uF/100uF/1mF	±(4.0%+5)	±(4.0%+5)
Frequency	10Hz~10MHz	±(0.5%+3)	±(0.5%+3)
Duty cycle	1%~99%	±(1.0%+2)	±(1.0%+2)
Temperature	(-2~1300)°C (-4~1832)°F	±(2.0%+3)	±(2.0%+3)
measurement			
Special Function			
Diode		✓	✓
Continuity Buzzer		✓	✓
Low battery indication		✓	✓
Data Hold		✓	✓
Auto power off		✓	✓
Backlight/Torch		✓	✓
DCAZERO Function			✓
True RMS		✓	✓
NCV measurement		✓	✓
Full range protection		✓	✓
Operation way		Auto range	Auto range
Max. Display		3999	3999
LCD Size		32*22mm	32*22mm
Battery		1.5V*2	1.5V*2



606D



606E

General Characters

Product Color	Case: black ; Holster color: orange
Product Net Weight	Approx176g
Product dimension	174*66*30mm
Standard Quantity Per Carton	30Pcs
Standard inner packing	Color box



606H



606G

Technical Data

Basic Function	Range	Accuracy 606G	606H
DCV	6V/60V/600V/1000V	$\pm(0.5\%+3)$	$\pm(0.5\%+3)$
ACV	6V/60V/600V/750V	$\pm(0.5\%+5)$	$\pm(0.5\%+5)$
Resistance	600Ω/6k/60k/600k/6M/40M(606G)/60M(606H)	$\pm(0.8\%+3)$	$\pm(0.8\%+3)$
Capacitance	60nF/600nF/6μF/600μF/6mF/30mF 10nF/100nF/1μF/100μF/1mF/10mF/60mF	$\pm(2.0\%+8)$	$\pm(2.0\%+8)$
Frequency	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz/10MHz	$\pm(0.01\%+2)$	$\pm(3\%+30)$
ACA	60A/600A		
	6A/60A/600A	$\pm(3\%+30)$	
Temperature	(-2~1300)°C (-4~1832)°F	✓	

Special Function

Operation Way	Auto Range	Auto Range
Max. Display	5999	5999
True RMS	✓	✓
Diode Test	✓	✓
Continuity Buzzer	✓	✓
Back Light	✓	✓
Square Wave Output	✓	
NCV Measurement	✓	✓
Flashlight Lighting	✓	✓

General Characters

Battery	2*1.5V	2*1.5V
LCD Size	32*22mm	32*22mm
Product Color	Orange and Black	Orange and Black
Product Net Weight	176g	176g
Product Size	174*66*30mm	174*66*30mm
Clamp Size	25mm	25mm
Standard Accessories	Instruction Manual, Battery, Bag, Test Leads, Temperature Probe	
Standard Inner Packing	Color Box	Color Box
Carton Size	45*42*27cm	45*42*27cm
Standard Quantity Per Carton	60pcs	60pcs
Standard Gross Weight	23.6KG	23.6KG

Technical parameter

Mode	Range	Precision
Basic skills	610D 610E	
DC voltage	600mV/6V/60V/600V 1000V	600mV/6V/60V/600V 1000V $\pm(0.5\%+5)$ $\pm(0.8\%+5)$
AC voltage	600mV/6V/60V/600V 750V VFD(750V)	600mV/6V/60V/600V 750V VFD(750V) $\pm(0.8\%+5)$ $\pm(1.0\%+5)$ $\pm(2.0\%+5)$
DC current	*	60A/600A/1000A $\pm(2.5\%+8)$
AC current	60A/600A/1000A	60A/600A/1000A VFD/INRUSH: $\pm(2.5\%+8)$
Resistance	600Ω/6kΩ/60kΩ/ 600kΩ/6MΩ/60MΩ	600Ω/6kΩ/60kΩ/ 600kΩ/6MΩ/60MΩ $\pm(1.0\%+5)$
Capacitance	10nF/100nF/1000nF/ 10μF/100μF/1000μF/10mF 100mF	10nF/100nF/1000nF/ 10μF/100μF/1000μF/10mF 100mF $\pm(4.0\%+5)$ $\pm(5.0\%+10)$
Frequency/Duty Cycle	10Hz/100Hz/1000Hz/ 10kHz/100kHz/1000kHz 10MHz 1~99%	10Hz/100Hz/1000Hz/ 10kHz/100kHz/1000kHz 10MHz 1~99% $\pm(1.0\%+3)$ $\pm(3.0\%+3)$
Temperature	-20°C~0°C 0°C~400°C 400°C~1000°C -4°F~32°F 32°F~752°F 752°F~1832°F	-20°C~0°C 0°C~400°C 400°C~1000°C -4°F~32°F 32°F~752°F 752°F~1832°F $\pm 3^{\circ}\text{C}$ $\pm 1.0\%$ or $\pm 2^{\circ}\text{C}$ $\pm 2\%$ $\pm 6^{\circ}\text{F}$ $\pm 1.0\%$ or $\pm 4^{\circ}\text{F}$ $\pm 2\%$

Features	
Display	LCD display
Max display	6000 counts
Diode	✓
Data retention	✓
NCV	✓
Fire detection	✓
Low voltage	✓
Flashlight	✓
True effective value	✓
INRUSH	✓
VFD	✓
Max/MIn	✓
LoZ	✓
Working humidity	0~40°C <80%
Storage humidity	-10~50°C <80%RH
Auto shut-down	About 15 minutes
Over-range display	The highest digit shows OL
Unit symbol	✓
Open jaws	40mm
input resistance	10MΩ
Sampling rate	3 times/sec
Power supply	Three AAA batteries



610E



610D

New Model DC 1500V



60B+

Specifications		60B+		
Measuring Voltage	250V+10%	500V+10%	1 000V+10%	
Range	0.4MΩ~999 MΩ	0.6MΩ~1999 MΩ	0.8MΩ~4999 MΩ	
Current of Short Circuit	1.8mA	1.8mA	1.6mA	
Median Resistance	2MΩ	2MΩ	5MΩ	
Jack Position	L/E			
Features				
Low Battery Indication	√			
Backlight display	√			
Alarm Function	Red indicator light is illuminated			
Over Load Indication	√			
Unit Symbol Display	√			
Auto Power Off	√			
Max. Display	4999			
Using Temperature	(0~40)°C			
Relative Humidity	30%RH~85%RH			
Input Impedance	1MΩ			
Frequency Response	(50~200) Hz			
Over Range Display	"1"			
General Information				
Power Color	Case: black, Holster color : orange			
Power Supply	9V (8x1.5V AA); AC adapter (not included)			



60D+

Specifications		60D+		
Measuring Voltage	500V	1000V	2500V	
Measurement range	0.6MΩ~4.99GΩ	1MΩ~9.99GΩ	3MΩ~49.9GΩ	
Open-circuit voltage	DC 500V+20%-0%	DC 1000V+20%-0%	DC 2500V+20%-0%	
Rated test current	500kΩ Load≥1.0mA	1MΩ Load≥1.0mA	2.5MΩ Load≥1.0mA	
Accuracy	±(5%+5)	±(5%+5)	≥3MΩ±(5%+5)	
Features				
Low Battery Indication	√			
Backlight display	√			
Alarm Function	Red indicator light is illuminated			
Over Load Indication	√			
Unit Symbol Display	√			
Auto Power Off	√			
Max. Display	1999			
Using Temperature	(0~40)°C			
Relative Humidity	30%RH~85%RH			
Input Impedance	1MΩ			
Frequency Response	(50~200) Hz			
Over Range Display	"1"			
General Information				
Power Color	Case: black, Holster color : orange			
Power Supply	9V (8x1.5V AA); AC adapter (not included)			

New Model



4105A/B

- 1.This digital ground resistance tester is a new generation of electrical test Instruments, beautiful and practical style.
- 2.Full-featured, high accuracy, convenient and reliable operation, dustproof moisture-proof structure, better suited to field use.
- 3.It can be used to measure a variety of power systems, electrical equipment, lightning protection equipment grounding system grounding resistance value, itCan Also measure AC voltage.

Technical data

Basic Function				
4105A	Ground resistance	20 Ω	±(2%+0.1 Ω)	0.01 Ω
		200 Ω	±(2%+3d)	0.1 Ω
		2000 Ω		1 Ω
	Ground resistance(AC current)	200V	±(2.0%+6d)	0.1V
4105B	Ground resistance	10 Ω	±(3%+0.1 Ω)	0.01 Ω
		100 Ω	±(3%+3d)	0.1 Ω
		1000 Ω	±(3%+8d)	1 Ω
	Ground resistance(AC current)	750V	±(1.0%+10d)	1V

General features	
Display	84.8×59.8mm LCD display, max display "1999"
Over range presentation	It will display "1" on the top number when it is over range
Power	Alkaline battery LR (1.5V)×8 (can contact with power adapter) When the battery is low, it will display a low battery sign
Power Dissipation	Electricity cost (no-load)≤800mw
Work environment	Temperature 0~40; relative humidity 30%~80%RH
Product size	175(L)×110(W)×70(D)mm
Weight	Approx: 680g (include battery)

General Specification

Model	Range	Accuracy	Resolution	Maximum test current
6310B	0.001mΩ~10.000mΩ	Within 18℃~28℃,	0.001mΩ	1.2A
	10.01mΩ~100.00mΩ	Below 70%rh:	0.01mΩ	1.2A
	100.1mΩ~1000.0mΩ	±0.1%FS±20dgt	0.1Ω	1.2A
	1.001Ω~10.000Ω		0.001Ω	1.2A
	10.01Ω~100.00Ω		0.01Ω	0.5A
	100.1Ω~1000.0Ω		0.1Ω	0.05A
	1.001KΩ~10.000KΩ		0.001KΩ	5mA
	10.01KΩ~100.00KΩ		0.01KΩ	0.5mA
	100.1KΩ~300.0KΩ		0.1KΩ	0.05mA
6310A	0.01mΩ~100.00mΩ	Within 18℃~28℃,	0.01mΩ	1.2A
	100.1mΩ~1000.0mΩ	Below 70%rh:	0.0001Ω	1.2A
	1.001Ω~10.000Ω	±0.1%FS±20dgt	0.001Ω	1.2A
	10.01Ω~100.00Ω		0.01Ω	0.5A
	100.1Ω~1000.0Ω		0.0001KΩ	0.05A
	1.001KΩ~10.000KΩ		0.001KΩ	5mA
	10.01KΩ~30.00KΩ		0.01KΩ	0.5mA

Note: within 18℃~28℃, above 70%rh, within -10℃~50℃, below 80%rh: ±0.2%FS±20dgt.

Model of Series		
Resistance Range	0.01mΩ~30.00KΩ	0.001mΩ~300.0KΩ
Resolution	10uΩ	1uΩ
Accuracy	±0.1%FS	±0.1%FS
Data storage	500 sets	500 sets
USB Data upload function	N	Y
Charging function	Y	Y

Model of Series	
Function	Mainly used to measure the wire resistance of cables, the contact resistance of switches, connectors, relays, the resistance of coils, motors, transformer winding and metal riveting resistance, the connection resistance test between metal components, the low-value resistance test, and the grounding grid Resistance test of connecting conductor, contact resistance test, etc.
Detection method	Four-wire method test
Test current	≥1A
Open circuit voltage	≤4.2V
Overload protection	Y
Power	Measuring powers8W
power supply	DC 3.7V 2000mAh
Backlight	Controllable gray and white screen backlight, suitable for dim places
Display Model	LCD
LCD Size	72 mm×55mm
Instrument size	187 mm×119 mm×50mm
Test line length	About 60cm, red, black 1pcs
measure time	About 2 times/sec
USB interface	With micro USB interface
Communication line	micro USB 1pcs
Data storage	500 groups, "MEM" storage indication, display "FULL" symbol to indicate storage is full
Data review	Data review function: "MR" symbol display
Overflow display	Over-range overflow function: "OL" symbol display
Battery voltage	Real-time display of battery power, reminding timely charging when battery voltage is low
Automatic shut-down	"APO" indicates, automatic shutdown after 15 minutes
Power consumption	Standby: about 100mA (backlight off) Turn on backlight: about 105mA Measure: 2A Max(backlight off)
Weight	Instrument:480g(including battery) Test line: 250g
Working temperature and humidity	-10℃~50℃; below 80%rh
Storage temperature and humidity	-20℃~60℃; below 70%rh
Overload protection	AC 220V/0.0001 second between C1-C2 P1-P2 ports, after overload protection, you need to restart the meter to test normally
Insulation resistance	More than 10MΩ(Between circuit and case 500V)
Pressure resistance	AC 3700V/rms(Between circuit and case)
Electromagnetic properties	IEC61010-4-3, Wireless frequency electromagnetic fields1V/m
Suitable for Safety Regulations	IEC61010-1, CAT III 600V, Pollution Level 2, JG724-1991 "Determination of Direct Current Digital Ohmmeter", JG166-1993 "Dialect Resistor Verification Regulation", "DL/T967-2005 Loop Resistance Tester and DC Resistance Fast Tester Verification Procedures



6310A/6310B



9600/9600B

General Specification

Model	Rated Voltage	Insulation Resistance Range	Short Circuit Current
9600	250V, 500V, 1KV, 2.5KV, 5KV	0.50MΩ~2.00TΩ	>5mA
9600B	250V, 500V, 1KV, 2.5KV, 5KV, 10KV	0.50MΩ~5.00TΩ	>5mA

Insulation Resistance Range and Accuracy

Rated Voltage	Insulation Resistance Range	Accuracy
250V	0.50MΩ ~ 10.0GΩ	±5%±3dgt
	10.0GΩ ~ 50.0GΩ	±10%±3dgt
500V	50.0GΩ ~ 100GΩ	±20%±3dgt
	1.00MΩ ~ 20.0GΩ	±5%±3dgt
1KV	20.0GΩ ~ 100GΩ	±10%±3dgt
	100GΩ ~ 200GΩ	±20%±3dgt
2.5KV	1.00MΩ ~ 50.0GΩ	±5%±3dgt
	50.0GΩ ~ 200GΩ	±10%±3dgt
5KV	200GΩ ~ 500GΩ	±20%±3dgt
	1.00MΩ ~ 200GΩ	±5%±3dgt
10KV	200GΩ ~ 1.00TΩ	±10%±3dgt
	1.00TΩ ~ 2.00TΩ	±20%±3dgt

1 TΩ (Tera ohm) =1000GΩ=10¹²Ω
1 GΩ (Giga ohm) =1000MΩ=10⁹Ω
1 MΩ (Mega ohm) =1000KΩ=10⁶Ω

Technical Specification

Model of Series	
Function	Insulation resistance measurement (IR); polarization index measurement (PI); absorption ratio (DAR); filtered resistance test (four time selection 10S,20S,30S,40S). Voltage measurement(V); Leakage current measurement (nA)
Power Supply	Rechargeable lithium battery 5.2Ah
Rated Voltage	9600: 250V, 500V, 1KV, 2.5KV, 5KV 9600B: 250V, 500V, 1KV, 2.5KV, 5KV, 10KV
Output Voltage Accuracy	(5%~10%) ±10V
Insulation Resistance Test Range	9600: 0.50MΩ~2.00TΩ 9600B: 0.50MΩ~5.00TΩ
Output Short Circuit Current	>5mA
Polarization Index Test	YES
Dielectric Absorption Ratio Test	YES
Ramp Test Mode	Step up to the preset voltage by testing with 10% stepped size of the preset voltage.
Filtered Resistance Test Mode	10S, 20S, 30S, 40S four selections
Voltage Test	Range: AC/DC:0V~1000V; Accuracy: ±5%rdg±3V
Current Test	Range: 0.01nA~5mA; Accuracy: ±5%rdg±0.5nA
Voltage Monitor	Monitor the voltage of the measured object, and monitor discharge status after test, forbidden to test when voltage exceed 36V, protect instrument and operator.
Test Timer	Automatic record test time, time range: 0s~9999s
Storage Function	Automatically store the test data with test date and time, total of 1000 groups
Upload Function	Upload the stored data to computer via USB communication cable.
Battery Power Display	With battery power display, when battery voltage low will remind to replace the battery
Automatic Shutdown	After 15 minutes start up will shut down automatically without any operation
Meter Dimension	280mm×260mm×160mm
Meter Weight	4400g (include the battery)
Test Wires	Red color high voltage test wire 1 pcs (with alligator clip 1PCS and hook 1PCS), green color test wire 1PCS, black color test wire 1PCS
Protection Level	Close the case IP65, open the case IP40
Working Environment	-20℃~50℃; 80%rh
Store Environment	-25℃~65℃; 80%rh
Insulation Resistance	50MΩ (1000v) (between the test circuit and shell)
Withstand Voltage	AC 3Kv 50Hz 1min (between the test circuit and shell)
Suitable Safety Standard	IEC61010-1, IEC61326-1

Model Category

Model	Rated Voltage	Insulation Resistance Range	Current Range
9620	250V, 500V, 1KV, 2.5KV, 5KV	0.50MQ~10.0TQ	>7mA
9620B	250V, 500V, 1KV, 2.5KV, 5KV, 10KV	0.50MQ~20.0TQ	>7mA
9620C	250V, 500V, 1KV, 2.5KV, 5KV, 10KV, 15KV	0.50MQ~30.0TQ	

Insulation Resistance Range and Accuracy

Rated Voltage	Insulation Resistance Range	Accuracy
250V	0.50MQ ~ 50.0GQ	±5%rdg±3dgt
	50.0GQ ~ 500GQ	±20%rdg±3dgt
500V	1.00MQ ~ 100GQ	±5%rdg±3dgt
	100GQ ~ 1.00TQ	±20%rdg±3dgt
1000V	1.00MQ ~ 200GQ	±5%rdg±3dgt
	200GQ ~ 2.00TQ	±20%rdg±3dgt
2500V	1.00MQ ~ 500GQ	±5%rdg±3dgt
	500GQ ~ 3.00TQ	±20%rdg±3dgt
5000V	1.00MQ ~ 1.00TQ	±5%rdg±3dgt
	1.00TQ ~ 10.0TQ	±20%rdg±3dgt
10KV	1.00MQ ~ 2.00TQ	±5%rdg±3dgt
	2.00TQ ~ 20.0TQ	±20%rdg±3dgt
15KV	1.00MQ ~ 3.00TQ	±5%rdg±3dgt
	3.00TQ ~ 30.0TQ	±20%rdg±3dgt

1 TQ (Tera ohm) =1000GQ=10¹²Q
 1 GQ (Giga ohm) =1000MQ=10⁹Q
 1 MQ (Mega ohm) =1000KQ=10⁶Q



9620/9620B/9620C

Insulation Resistance Range and Accuracy

Basic function	Output voltage	Range	Accuracy
Insulation Resistance	250V	0.01MQ ~ 2.5GQ	±3%±5dgt
		2.5GQ ~ 250GQ	±15%±5dgt
	500V	0.01MQ ~ 5GQ	±3%±5dgt
		5GQ ~ 500GQ	±15%±5dgt
	1KV	0.01MQ ~ 10GQ	±3%±5dgt
		10GQ ~ 1TQ	±15%±5dgt
	2.5KV	0.01MQ ~ 25GQ	±3%±5dgt
		25GQ ~ 2.5TQ	±15%±5dgt
	5KV	0.01MQ ~ 50GQ	±3%±5dgt
		50GQ ~ 5TQ	±15%±5dgt
AC/DC voltage	ACV	0.01V~750v	±2%rdg±3dgt
	DCV	0.01V~1000v	±2%rdg±3dgt



9600S

General Specification

Technical Specification	
Function	Insulation resistance measurement (IR); polarization index measurement (PI); absorption ratio (DAR); ramp test mode (RAMP); filtered resistance test (four time selection 10S, 20S, 30S, 40S); Voltage measurement (V); capacity measurement (uF); current measurement (nA)
Power Supply	Rechargeable Lithium battery 6.2Ah
Rated Voltage	9620: 250V, 500V, 1KV, 2.5KV, 5KV 9620B: 250V, 500V, 1KV, 2.5KV, 5KV, 10KV 9620C: 250V, 500V, 1KV, 2.5KV, 5KV, 10KV, 15KV
Output Voltage Accuracy	(5% ~ 10%)±10V
Insulation Resistance Test Range	9620: 0.50MQ ~ 10.0TQ 9620B: 0.50MQ ~ 20.0TQ 9620C: 0.50MQ ~ 30.0TQ
Output Short Circuit Current	≥7mA
Polarization Index Test	YES
Dielectric Absorption Ratio Test	YES
Ramp Test Mode	Step up to the preset voltage by testing with 10% stepped size of the preset voltage.
Filtered Resistance Test Mode	10S, 20S, 30S, 40S four selections
Voltage Test	Range: AC/DC: 0V ~ 1000V; Accuracy: ±5%rdg±3V
Capacitance Test	Range: 10nF ~ 25uF; Accuracy: ±10%rdg±10nF
Current Test	Range: 0.01nA ~ 7mA; Accuracy: ±5%rdg±0.5nA
Voltage Monitor	Monitor the voltage of the measured object, and monitor discharge status after test, forbidden to test when voltage exceed 36V, protect instrument and operator.
Test Timer	Automatic record test time, time range: 0s~9999s
Storage Function	Automatically store the test data with test date and time, total of 1000 groups
Upload Function	Upload the stored data to computer via USB communication cable.
Battery Power Display	With battery power display, when battery voltage low will remind to replace the battery
Automatic Shutdown	After 15 minutes start up will shut down automatically without any operation
Meter Dimension	280mm×260mm×160mm
Meter Weight	4900g (include the battery)
Test Wires	Red color high voltage test wire 1 pcs (with alligator clip 1PCS and hook 1PCS), green color test wire 1PCS, black color test wire 1PCS
Protection Level	Close the case IP65, open the case IP40
Working Environment	-20°C ~ 50°C; 80%rh
Store Environment	-25°C ~ 65°C; 80%rh
Insulation Resistance	50MQ (1000V) (between the test circuit and shell)
Withstand Voltage	AC 3Kv 50Hz 1min (between the test circuit and shell)
Suitable Safety Standard	IEC61010-1, IEC61326-1

General function	
Function	Insulation resistance measurement (IR); polarization index measurement (PI); absorption ratio (DAR); AC and DC voltage test; automatic discharge function; ambient temperature test;
Power Supply	DC 14.8V 2200mAh rechargeable Lithium battery
Rated Voltage	250V, 500V, 1000V, 2500V, 5000V
Output Short Circuit Current	≥10mA
Connection method	L terminal: "L" is called the high-voltage output terminal, called the line terminal, and leads to the end of the measured object G terminal: "G" is called the shield terminal, which is used for the three-electrode method to measure the insulation resistance of insulating materials or cables, and it is connected to the GRE E terminal: "E" is called the ground terminal, which is connected to the ground and zero terminals of the measured object. Such as motor housing metal, transformer core, cable shielding V terminal: AC and DC voltage measurement terminal (AC and DC automatic identification)
Resolution	Insulation resistance: 0.01 MQ AC voltage: 0.01V DC voltage: 0.01V
Measure time	1 minute to 30 minutes (related to the measurement method, can be set)
Backlight	Controllable white screen backlight, suitable for dark places
Shift	Fully automatic shifting
LCD	4-digit LCD display, white screen backlight
LCD size	128mmX75mm
LCD display field	124mmX67mm
Measurement instructions	LED flashing indication during measurement, progress bar graph indication
Size	258mmX215mmX83mm
Standard test lead	1 red high voltage test rod, 1 green and 1 black test lead.
Battery voltage	Real-time display of remaining battery power, please charge in time when the battery is low
Communication Interface	With a USB interface, the stored data can be uploaded to the computer, saved and printed
Communication line	1 USB communication cable, 1.5m long
Working current	Standby: 25mA Max (backlight off); Backlight: 25mA Max (backlight power consumption alone);
Weight	Meter: 2.19kg (including battery); Total: 3.50kg (including packaging)
Toolkit	Yellow and black two-color tool bag, easy to carry, good visual effect
Working temperature and humidity	-10°C ~ 40°C; below 80%rh
Storage temperature and humidity	-20°C ~ 60°C; below 70%rh
Pressure resistance	AC 3700V/rms (between the front and rear ends of the housing)
Insulation resistance	Above 20MQ (500V between bottom cover screws and top cover)
Electromagnetic properties	IEC61326(EMC)



4105C

General Specification

Function	fMeasurement of 2/3/4-pole earth resistance, soil resistivity, earth voltage, AC voltage
Power Supply	DC 9V (Zi-Mn dry battery R14S 1.5V 6 PCS, continuous standby for 300 hours)
Measurement Range	Earth Resistance: 0.00Ω-30.00kΩ Soil Resistivity: 0.00Ωm-9000kΩm
Measuring Mode	Precise 4-pole measurement, 3-pole measurement, simple 2-pole measurement
Measuring Method	Earth Resistance: rated current change-pole method, measurement current 20mA Max Soil Resistivity: 4-pole measurement (Wenner method) Earth Voltage: average rectification(between P(S)-ES)
Test Frequency	128Hz/111Hz/105Hz/94Hz(AFC)
Short-circuit Test Current	AC 20mA max
Open-circuit Test Current	AC 40V max
Test Voltage Wave	Sine wave
Electrode Distance Range	Can be set 1m-100m
Shift	Earth Resistance: 0.00Ω-30.00kΩ, automatic shift Soil Resistivity: 0.00Ωm-9000kΩm, automatic shift
Backlight	Blue screen backlight, suitable for dim places
Display Mode	4-digital super-large LCD display, blue screen backlight
Measuring Indicator	During measurement, LED flash indicator, LCD count down display, progress bar indicator
LCD Frame Dimension	128mm×75mm
LCD Window Dimension	124mm×67mm
Dimension	L×W×H: 215mm×190mm×95mm
Standard Test Wire	4 wires: each for red 20m, black 20m, yellow 10m, and green 10m
Simple Test Wire	2 wires: each for red 1.6m and black 1.6m
Auxiliary Earthing Rod	4 rods: Φ10mm×150mm
Measuring Rate	Earth voltage: about 3 times/second Earth resistance, soil resistivity: about 5 seconds/time

Earth Resistance Soil Resistivity Tester

Earth Resistance Soil Resistivity Tester is specially designed and manufactured for measuring earth resistance, soil resistivity, earth voltage, AC voltage. Adopting the latest digital and micro-processing technology, precise 4-pole, 3-pole and simple 2-pole method for earth resistance measurement, importing FFT and AFC technology, with a unique function of anti-interference capability and the ability to adapt to the environment, consistency of repeat testing, to ensure high precision, high stability and reliability for prolonged measure, which is widely used in electric power, telecommunications, meteorology, oil field, construction, lightning protection, industrial electrical equipment and other earth resistance, soil resistivity, earth voltage, AC voltage measurement.

General Specification

Function	
Measuring Times	Over 5000 times (Short-circuit test, interval time should be at least 30 seconds)
Line Voltage	below AC 600V
RS232 Interface	Possess RS232 interface, software supervision, storage data can be uploaded to computer, saved or printed.
Communication Wire	One piece of RS232 communication wire, with length 1.5m
Data Storage	300 sets, "MEM" icon storage indicator, flash display "FULL" icon to indicate storage is full
Data Hold	Data hold function: "HOLD" icon display
Data Access	Data read function: "READ" icon display
Overflow Display	Exceeding measuring range overflow function: "OL" icon display
Interference Test	Recognize interference signal automatically, "NOISE" icon display when interference voltage exceed 5V
Auxiliary Earthing Test	Can measure auxiliary earth resistance, 0.00KΩ-30kΩ(100R+rC<50kΩ, 100R+rP<50kΩ)
Alarm Function	When measuring value exceeds alarm setting value, there is "Too-fool-too" alarm hint
Battery Voltage	When battery voltage decreases to about 7.5V, battery voltage low icon will display, reminding to replace battery.
Power Consumption	Standby: about 20mA (Backlight shut off) Boot and with backlight: about 45mA (25mA without backlight) Measurement: about 100mA (Backlight shut off)
Weight	Total weight: 4.5kg (including package) Tester: 1443g (including battery) Testing wires: 1560g Auxiliary earthing rods: 935g (4pcs)
Working Temperature & Humidity	-10 C-40 C , below 80%rh
Storage temperature & humidity	-20 C-60 C , below 70%rh
Overload Protection	Measuring earth resistance: between each interfaces of C(H)-E, P(S)-ES, AC 280V/3 seconds
Insulation Resistance	Over 20MΩ (between circuit and enclosure it is 500V)
Withstanding Voltage	AC 3700V/rms (Between circuit and enclosure)
Electromagnetic Features	IEC61326(EMC)
Protection Type	IEC61010-1 (CAT III 300V, CAT IV 150V, Pollution 2), IEC61010-031, IEC61557-1 (Earth resistance), IEC61557-5 (Soil resistivity), JIG 366-2004

Intrinsic error and performance indicators under base conditions

Category	Measurement Range	Intrinsic Error	Resolution
Earth Resistance (R)	0.00Ω-30.00Ω	±2%rdg±3dgt	0.01Ω
	30.0Ω-300.0Ω	±2%rdg±3dgt	0.1Ω
	300Ω-3000Ω	±2%rdg±3dgt	1Ω
	3.00kΩ-30.00kΩ	±4%rdg±3dgt	10Ω
Soil Resistivity (ρ)	0.00Ωm-99.99Ωm	According to the precision of R	0.01Ωm
	100.0Ωm-999.9Ωm	(ρ=2πaR	0.1Ωm
	1000Ωm-9999Ωm	a:1 m-100m,	1Ωm
	10.00kΩm-99.99kΩm	π=3.14)	10Ωm
	100.0kΩm-999.9kΩm		100Ωm
	1000kΩm-9000kΩm		1kΩm
Earth Voltage	AC 0.0-600V	±2%rdg±3dgt	0.1V



4106C



4106C

Basic Function	Range	Resolution	Accuracy
Ground resistance	0.00Ω ~ 30.00Ω	0.01Ω	±2%rdg±3dgt
	30.0Ω ~ 300.0Ω	0.1Ω	±2%rdg±3dgt
	300Ω ~ 3000Ω	1Ω	±2%rdg±3dgt
	3.00kΩ ~ 30.00kΩ	10Ω	±4%rdg±3dgt
Ground voltage	AC 0.0 ~ 600V	0.1V	±2%rdg±3dgt
Soil resistivity	0.00Ω m ~ 99.99Ωm	0.01Ω m	According to the measurement accuracy of R (ρ=2πrR; a: 1 m~100m; π=3.14)
	100.0Ω m ~ 999.9Ωm	0.1Ω m	
	1000Ω m ~ 9999Ωm	1Ω m	
	10,00kΩ m ~ 99.99kΩm	10Ω m	
	100.0kΩm ~ 999.9kΩm	100Ω m	
	1000kΩm ~ 9000kΩm	1kΩ m	
Measuring method	Grounding resistance: rated current pole changing method, measuring current 20mA Max. Soil resistivity: quadrupole method (Wenner method), Grounding voltage : average value rectification		
Test frequency	128Hz/111Hz/105Hz/94Hz(AFC)		
Test voltage waveform	Sine wave		
Short circuit test current	AC 20mA max		
Data storage	300 groups		
Data reference	"READ" symbol		
Open circuit test voltage	AC 40V max		
Data hold	"HOLD" symbol		
Overflow display	"OL" symbol		
Test line	red 20m, black 20m, yellow 10m, green 10m, red 1.6m, black 1.6m each 1 (total 6)		
Auxiliary ground rods	4 *φ 10mm×150mm		
USB interface	With USB interface, software monitoring, stored data can be uploaded to the computer, saved and printed; one 1.5m long communication line		
Alarm function	When the measured value exceeds the alarm setting value, alarm prompt "beep-beep-beep--"		
Auto power off	Auto power off after 15 minutes		
Overload protection	Measuring ground resistance: AC 280V/3 seconds between each port of C(H)-E, P(S)-ES		
Interference test	Automatically identify the interference signal, and the "NOISE" symbol indicates when the interference voltage is larger than 5V		
Auxiliary grounding test	With auxiliary grounding resistance value test function, 0.00kΩ ~ 30kΩ (100R+rC<50kΩ, 100R+rP<50kΩ)		
Protection level	IP65 (with cover closed)		
Battery voltage	When the battery voltage drops to about 7.5V and show the low battery voltage symbol "  ", please replace the battery		
Working current	Standby: about 20mA (backlight off); turn on the backlight: about 45mA (backlight off 25mA); measurement: about 100mA (backlight off)		
Accessories	Meter: 1; Grounding probe: 4; Test lead: 4; Simple test lead: 2; USB communication cable: 1; CD: 1; Meter bag: 1; Special charger: 1		
Power	DC 7.4V 2600mAh rechargeable lithium battery		
Color	Black + Orange		
LCD size	LCD size 128mm×75mm; LCD display area 124mm×67mm		
Weight	4765kg (including packaging)		
Size	280mm×260mm×160mm		
Standard packing box gross weight	about 6KG		

Clamp Earth Resistance Tester

Specification

Model	Range of Resistance (Ω)	Range of Current (A)	Storage Function	Alarm Function
6410	0.010Ω-200Ω	—	99 groups	Yes
6411	0.010Ω-200Ω	0.00mA-30A	99 groups	Yes
6412+	0.010Ω-1200Ω	—	99 groups	Yes
6412	0.010Ω-1200Ω	0.00mA-30A	99 groups	Yes

Ranges and Accuracy

Mode	Range	Resolution	Accuracy
Resistance Range	0.010Ω-0.099Ω	0.001Ω	±(1%rdg+0.01Ω)
	0.10Ω-0.99Ω	0.01Ω	±(1%rdg+0.01Ω)
	1.0Ω-9.9Ω	0.1Ω	±(1%rdg+0.1Ω)
	50.0Ω-99.5Ω	0.5Ω	±(1.5%rdg+0.5Ω)
	100Ω-199Ω	1Ω	±(2%rdg+1Ω)
	200Ω-395Ω	5Ω	±(5%rdg+5Ω)
	400Ω-590Ω	10Ω	±(10%rdg+10Ω)
Current Range	600Ω-1200Ω	20Ω	±(20%rdg+20Ω)
	0.00mA-9.95mA	0.05mA	±(2.5%rdg+1mA)
	10.0mA-99.9mA	0.1mA	±(2.5%rdg+5mA)
	100mA-299mA	1mA	±(2.5%rdg+10mA)
	0.30A-2.99A	0.01A	±(2.5%rdg+0.1A)
	3.0A-9.9A	0.1 A	±(2.5%rdg+0.3A)
	10.0A-19.9A	0.1 A	±(2.5%rdg+0.5A)
	20.0A-30.0A	0.1 A	±(3%rdg+1A)



6410/6412/6412+

Technical Specifications

Power supply	DC6V, No.5 alkaline dry battery (LR61.5V × 4)
Work environment	-10℃~55℃
Relative humidity	10%-90%
liquid crystal display	4-digit LCD number, 47 × 28.5mm
Clamp gauge quality	Approximately 860g (including battery)
Clamp gauge size	275mm×97mm×56mm
Protection level	Double insulation
Structural	Jaw method
Range shifting	automatic
External magnetic field	<40A/m
External electric field	<1V/m
Single measurement	0.5 seconds
Resistance frequency	>1KHz
Resistance resolution	0.001Ω
Resistance range	0.01Ω-1200Ω
*Current range	0.00mA-30.0A
Tested current	50/60Hz
Store data	99 groups
Resistance alarm value	1-199Ω
*Current alarm critical value	1-499mA

Note: "*" is only applicable to 6411/6412



140

VICTOR 140 Clamp Leaker Function Measurement Of AC Leakage Current, AC Current And On-Line AC Current Four Bits LCD Display

VICTOR140 High Accuracy Clamp Leaker could be used for AC Line current measurement and on-line current measurement with voltage lower than AC600V; it also have those functions as peaking holding, data holding and data storage; with convenient use, it is an essential tool for electrician safety testing.

Technical data

Model	140
Function	AC leakage current, AC current, online AC current
Power	AAA*2 batteries
Range	0.00mA~300.0A
Accuracy	0~60A: $\pm 1.5\%$ rdg ± 5 dgt 60A~300A: $\pm 2\%$ rdg ± 5 dgt
Resolution	10uA
Jaw size	35 * 40mm
Instrument size	180 * 72 * 32mm
Instrument quality	Approximately 200g (including battery)
Testing method	Clamp CT, integral method
Display mode	4-digit LCD display
LCD size	35 * 21.5mm display field: 32 * 15mm
Sampling rate	About 2 times/second
Frequency	50Hz, 60Hz automatic recognition
Shift	Fully automatic switching
Line voltage	Testing of AC600V and below circuits
Data storage	99 groups
Peak maintenance	Long press hold to display peak value without letting go
Data retention	"DH" symbol display
Overflow display	"OL" symbol display
Automatic shutdown	Automatically shut down after 5 minutes of startup
Battery voltage	When the battery voltage is below 2.8V
Working current	5mA
Work environment	0 °C~40 °C; Below 80% RH
Storage environment	-10 °C~60 °C; Below 70% RH
Insulation strength	AC2kV/rms (between iron core and box)
Safety regulations	IEC1010-1, IEC1010-2-032, Pollution level 2, CAT III (600V)

New Product Victor 140D Digital AC/DC Clamp Leaker High Precision Anti -interference Fully Auto Gear Shift Electrical Meter

The instrument has data retention, data storage and other functions. It is equipped with USB interface, communication line and monitoring software. It can be online real-time monitoring and historical query through the computer, dynamic display, maximum, minimum, average value indication, alarm value setting and alarm indication Functions, with historical data reading, saving, printing and other functions.

Technical data

Model	140D
Jaw size	16mm*18mm
Instrument size	215mm*61mm*32mm
Function	Automobile DC dark current, leakage current, etc., other AC and DC current, leakage current measurement
Power supply	Zinc-manganese dry battery 6F22 9V
Test method	Clamp CT, non-contact measurement
Measuring range	0mA ~ 60.0A AC/DC
Resolution	1mA AC/DC
Precision	$\pm 2\%$ rdg ± 5 dgt (23 °C ± 5 °C, below 75%rh)
Display mode	4-digit LCD display
LCD size	35mm*21.5mm; display area: 32mm*15mm
Sampling rate	2 times/sec
Frequency response	AC: 45Hz ~ 400Hz
Polarity indication	Automatically recognize when DC current is detected, display "-"
Wire position	The detected wire is in the center of the jaws
Shift	Fully automatic switching
Line voltage	600V and below line test
USB interface	Stored data can be uploaded to the computer, saved and printed
Communication parameters	Baud rate 9600, data bit 8, stop bit 1, parity bit NONE
data storage	99 groups, flashing "FULL" symbol indicates that the storage is full
Data retention	Data retention function: "DH" symbol display
Overflow display	Over-range overflow function: "OL A" symbol display
Automatic shut-down	After 5 minutes of power-on, the meter will automatically shut down to reduce battery consumption
Battery voltage	When the battery voltage drops to 7.2V, the battery voltage low symbol is displayed, reminding to replace the battery
Instrument quality	220g (including battery)
Working current	Max 20mA
Working temperature and humidity	-10 °C ~ 50 °C; below 80%rh
Limit temperature error	-10 °C ~ 0 °C and 40 °C ~ 50 °C, the error will increase by 2%rdg
Storage temperature and humidity	-10 °C ~ 60 °C; below 70%rh
Dielectric strength	AC 3700V/rms (between core and box)



140D



140A

VICTOR 140A 0--60A High Accuracy Clamp Leaker With RS232 Small Clamp Size AC Line And on-line current measurement lower than AC600V

This High Accuracy Clamp Leaker obtains one RS232 interface. With the help of the software that we provide, many functions are available. For example, on-line monitoring, historical data inquiry, active curve drawing, indication of max, min and average value, alarm setting and indication. There are also functions like saving to documents and printing when connected to PC.

This High Accuracy Clamp Leaker could be used for AC Line current measurement and on-line current measurement with voltage lower than AC600V; it also have those functions as peaking holding, data holding and data storage; with convenient use, it is an essential tool for electrician safety testing.

Technical data

Model	140A
Measure Range	0.000mA~60.00A
Resolution	1uA
Clamp Dimension	25X30mm
Function	Measurement of AC leakage current, AC current and on-line measurement
Power	Zn-Mn dry battery, 6F22, 9V
Test Mode	Clip-on CT, integral mode
Display Mode	Four digits LCD display
Dimension	Width × Height × Thickness: 175mm×70mm×38mm
LCD Dimension	35mm×21.5mm; display domain: 32mm×15mm
Sampling Rate	about 2 times/s
Frequency	50/60Hz Automatically
Range Shift	Automatically
Accuracy	0.00 ~ 60.00A: ±1.5%±5dgt
Voltage Range	AC600V
RS232 Interface	Data stored in the memory of the meter via RS232 upload to PC, or on-line monitoring
Storage	99units, all used when display FULL
Peak Hold	Push HOLD without release, the meter will show the peak value during the pushing period
Reading Hold	DH indicating the reading is hold
Out of Range	OL indicating the current is out of range
Auto Power-off	5 Minutes after power on, it will power off automatically to lower the power consumption
Battery Voltage	Indicating the battery voltage is lower than 7.2V. Then the battery have to be changed
Weight	120g (including the battery)
Consumption	About 5mW
Temperature and Humidity	Working: 0℃ ~ 40℃, below 80%rh Storage: -10℃ ~ 60℃, below 70%rh
Insulating Strength	AC2kV/rms (between the alloy of the clamp and the housing)
Applicable Safety Rules	IEC1010-1, IEC1010-2-032, pollution, etc 2-CAT III (600V)

Technical data

Model	6415	6415A
Features	Bench top	Box top
Function	Grounding resistance, soil resistivity, DC resistance, grounding voltage, AC current, leakage current measurement	
Range	Two-three-four-wire grounding resistance measurement: 0.00Ω~30.00kΩ Grounding resistance measurement by selection method: 0.00Ω~3000Ω Double-clamp method grounding resistance measurement: 0.01~100Ω Grounding voltage: AC0.0V~100.0V Soil resistivity: 0.00Ωm~9000Ωm AC current: AC 0.00mA~600.0A	
Measurement mode	Precision four-wire, three-wire method, simple two-wire, selection method, double-clamp method to measure grounding resistance	
Measurement method	Two-three-four-wire method measurement: pole-changing method, test current 20mA Max Selection method measurement: pole changing method, test current 20mA Max Double clamp method: non-contact mutual inductance measurement method, test current 1mA Max Soil resistivity: quadrupole method (Wenner method) DC resistance: pole changing method AC current: average value rectification (clamp) Grounding voltage average value rectification (between P(S)-ES interface)	
Backlight	Controllable white screen backlight, suitable for use in dark places	
Display	4-digit large LCD display with backlight	
Measurement indication	LED flashing indication during measurement, LCD countdown display	
Measurement time	AC current: about 2 times/second; grounding voltage: about 2 times/second; grounding resistance: about 7 seconds/time	
Measurement frequency	more than 5000 times (short circuit test, test once, stop for 30 seconds and test again)	
Line voltage	measurement below AC 600V	
Communication interface	With RS232 interface, the stored data can be uploaded to the computer through the software	
Data storage	2000 groups	
Overload protection	Measuring ground resistance: AC 280V/3 seconds between each port of C(H)-E, P(S)-ES	
Insulation resistance	above 20MΩ (500V between circuit and case)	
Withstand voltage	AC 3700V/rms (between circuit and case)	
Power supply	DC 9V (6 pcs R14S 1.5V zinc-manganese dry battery, continuous standby for 300 hours)	DC 8.4V (rechargeable battery, continuous standby for 300 hours)
Accessories	Meter: 1; Grounding probe: 4; Simple test lead: 2; USB communication cable: 1; CD: 1; Meter bag: 1; Special charger: 1	
Standard test lines	red 20m, black 20m, yellow 10m, green 10m each	
Auxiliary ground rods	4φ 10mm×150mm	
Simple test lines	red 1.6m, black 1.6m each	
Communication line	RS232 communication line 1, length 1.5m	
Current clamp	blue and black plugs, red and black plugs each	
Current clamp size	185mm×115mm×43mm	
Current clamp diameter	φ8mm	
Power	DC 7.4V 2600mAh rechargeable lithium battery	
Current clamp lead length	2m	
Color	Black + Orange	
LCD size	128mm×75mm; display area: 124mm×67mm	
Weight	1232g	2560g
Size	215mm×190mm×95mm	280mm×260mm×160mm
Standard inner packing	Neutral kraft carton	



6415



6415A

4000



Technical data

Basic error and function under basic condition

Target	Measure range	Resolving power	Basic error
Voltage	20V	0.01V	$\pm(1.2\%rdg+2dgt)$
	200V	0.1V	
	500V	1V	
Current	200mA	0.1mA	$\pm(1.0\%rdg+2dgt)$
	2A	1mA	
	10A	10mA	
Phase	0~360°	1°	$\pm 3^\circ$

Basic Condition and Work condition

Target	Basic condition	Work condition	Remark
Environment Temperature	23°C ± 1°C	-10°C ~ 40°C	
Environment Humidity	40% ~ 60%	< 85%	
Function wave	Sine wave	Sine wave	$\beta = 0.05$
Function frequency	50Hz ± 1Hz	45Hz ~ 65Hz	
Work Voltage	9V ± 0.1V	9V ± 1V	
External electric field, magnetic field	Must avoid		
Place of measured lead	At the approximate geometric center of the jam		

Standard accessories

Instrument box	1
Current clamp	2
Test leads	4 (2 red and 2 black)
Battery	6 (Alkaline dry battery: 1.5V AA)
Instruction	1

Basic Function		
Function	Range	Accuracy
AC voltage	0.1mA~299mA	$\pm 1\%+3dgt$
	0.30A~49.9A	$\pm 1.5\%+5dgt$
	50.0A~199.9A	$\pm 2\%+5dgt$
	200A~600A	$\pm 3\%+5dgt$
	601A~1000A	$\pm 4\%+5dgt$

Special Function	
Function	High and low voltage AC current test, creepage test, AC current monitoring online
Power	DC6V alkaline dry battery (1.5V AAA×4) Auto power off
Display mode	4 bit LCD display, backlight function, suit for dark place
Product size	76mm×255mm×31mm
Clamp size	Φ 48mm
Sampling rate	About 2 times/s
Shift	0.1mA~1000A auto shift (test rate 50/60Hz)
Data hold	99 Data hold
Circuit voltage	Under 23KV can test circuit voltage (use insulating rod)
Weight	Resting bench: about 335g(include battery), total weight: about 2.5kg(include insulating rod and battery)
Working temperature and humidity	-10°C~40°C; under 80%RH
Store temperature and humidity	-10°C~60°C; under 70%RH
Insulating rod size	Φ 32mm, 1m/each batter (5battery)
Insulating strength	AC 40kV/rms (between insulating rod and the clamp)

9000



385+



Surface Resistance Tester

Specifications	385+
Resistance range	103~1010Ω
Resistance error	± one order of magnitude
temperature range	0~50°C (32~122°F)
Temperature accuracy	±2°C/±3.6°F
Working temperature	0~40°C (32~104°F)
Storage temperature	0~60°C (32~140°F)
Relative humidity	0~70% RH (non condensing)
Backlight	√
Power Supply	9V 6F22 battery
Automatic shutdown	About 5 minutes
Size	131*65*35mm
Weight	About 180g

Special Function	
Function	High Voltage ACA Test Low Voltage ACA Test Leakage Current Test Online ACA Monitoring
Power	6V Battery (1.5V AAA×4)
Ways of Measuring	Clamp Shape C.T. Integration
Transmission	Wireless transmission Line transfer max. distance: Approx. 30m
Display Mode	4 digital LCD Display, Backlight Function Suitable for dusky occasions.
LCD Size	47mm×28.5mm
Product Size	76mm×255mm×31mm
Clamp Size	Φ48mm
Sampling Rate	Approx. 2 times/s
Measuring Range	0.1mA~1000A (50/60Hz Automatically)
Resolution	0.1mA
Gear Shift	0.1mA~1000A Full automatic gear shift
Accuracy (Below 23°C ± 5, 80% RH)	0.1mA~299mA: $\pm 1\%+3dgt$
	0.30A~9.99A: $\pm 1.5\%+5dgt$
	10.0A~199.9A: $\pm 2\%+5dgt$
	200A~399A: $\pm 2.5\%+5dgt$
	400A~600A: $\pm 3\%+5dgt$
	601A~1000A: $\pm 4\%+5dgt$
Line Voltage	Line test below 60KV
Data Storage	99 sets of data can be stored in the process "MEM" sign indication "FULL" twinkling sign indicates memory full
PEAK Hold	√
Data Hold	√
Data Scan	√
Overflow Indication	√
No Sign Indication	√
Auto Power Off	√
Low Battery Indication	√
Operation Temperature	-25°C ~ 40°C; below 80% RH
Storage Temperature	-10°C ~ 60°C; below 70% RH
Insulating Bar Size	Φ32mm, 1m per node (five nodes)
Insulating Strength	AC 100kV/rms (Between the fifth insulating bar and high voltage current clamp chip)
Structure	Leak-Proof II

9000B





6234P



6235P



6236P



824

New Model



824



824C



6237P
6238P

Technical data

Model	6234P	6235P	6236P
Size	5 digits large LCD display	5 digits large LCD display	5 digits large LCD display
Measuring range	/	Contact rev: 1.0~19999RPM Surface Speed (m/min): 1.0~1999.9RPM	Contact rev: 1.0~19999RPM Surface Speed (m/min): 1.0~1999.9RPM
Resolution	Contact rev: 0.1RPM Surface Speed (m/min): 0.01m/min	Contact rev: 0.1RPM Surface Speed (m/min): 0.01m/min	Contact rev: 0.1RPM Surface Speed (m/min): 0.01m/min
Accuracy	±0.05%+1	±0.05%+1	±0.05%+1
Max. Display	40000	40000	40000
Time Base	4MHz quartz crystal	4MHz quartz crystal	4MHz quartz crystal
Power	4×1.5VAA(UM-3)	4×1.5VAA(UM-3)	4×1.5VAA(UM-3)
Dimension	Approx: 157×64×31mm	Approx: 174×64×31mm	Approx: 195×64×31mm
Weight	Approx: 125g	Approx: 110g	Approx: 200g

Model	6237P	6238P
Measuring Range	60~19999RPM/FPM	60~39999RPM/FPM
RPM: Round Per Minute	FPM: Flash Per Minute	
Coarse/Fine Adjust Knob Range	<1000RPM hours Coarse Adjust Knob: 10RPM/FPM Fine Adjust Knob: 0.1RPM/FPM	<1000RPM hours Coarse Adjust Knob: 100RPM/FPM Fine Adjust Knob: 1RPM/FPM
Accuracy	0.05%	
Resolution	<1000RPM: 0.1RPM/FPM ≥1000RPM: 1RPM/FPM	
Time Base	10MHz	
Display	5 Digits LCD Backlight	
Max. Display	19999	
Power Supply	4×1.5V AA(UM-3) battery	
Product Size	195×73×38mm	
Weight	Approx. 200g	

Sound level meter

Basic function	824	824C
Measuring range	30~130dBA; 35~130dBC	30~130dBA
Accuracy	±1.5dB	±1.5dB
Digit&Resolution	5 digits & 0.1dB	4 digits & 0.1dB
Frequency response	31.5Hz~8.5kHz	31.5Hz~8.5kHz
Measuring level	30~130, 40~90, 50~100, 60~110, 80~130	
Frequency weighting characteristic	A & C	
Time weighting	FAST/ SLOW	
Sampling rate	2 times/second	2 times/second
Microphone	1/2 inch polarization capacitance microphone	1/2 inch polarization capacitance microphone
AC/DC output	✓	
Max reading	✓	✓
Barcode indicate the value	✓	
Overload indication	OVER/UNDER	
Low battery indication	✓	
Power	1.5V AA 4pcs or DC 6V 100mA adapter	9V battery 1pcs or DC 6V 100mA adapter
Dimension	256×70×35mm	52.5×133.5×35.5mm
Weight	308g (including battery)	144g (including battery)



834BW

VICTOR 834BW Digital Sound Level Meter with Bluetooth /WiFi wall mounting type

Technical data

Basic Function	834BW
Measuring range	30dB~130dB
Accuracy	±1.5dB
Frequency response	31.5Hz~8.5KHz
Frequency weighting	A Rights
Response time	FAST(fast), about 1 second, 2times
Sensor Type	6mm capacitor microphone sensor
Resolving power	0.1dB(< 100dB); 1dB(>100dB)
Alarm prompt	Voice+Display
Refresh rate	2 times per second
Power supply method	DC5V/2A
Work environment	0~40°C; 10%~80% RH
Storage environment	-10~60°C; 10%~70% RH
Display method	3 digit digital tube display
Display size	4-inch single word
Product size	323*173*40mm
Product weight	Approximately 1038g
Attachment	Instructions, certificate of conformity, adapter, adapter, suspension, suspension screws



1010D+



1010DL

Technical data

Model	1010D+ (General)	1010DL (Bluetooth)
Lcd	4-bit LCD	
Illumination range	0~199999LUX; 0~19999FC	
Illumination accuracy	± 4% (corrected by standard flat lamp with color temperature of 2856K);	
Resolution	± (6%~5Lux) other visible light sources Lux: <200, 0.1Lux; ≥200, 1Lux; FC: <20, 0.01FC; ≥200, 0.1FC; > 200, 1FC	
Cosine angle	30°, ±2%; 60°, ±6%; 80°, ±25%	
Deviation characteristics		
Max/Min	√	
Automatic shutdown	10 minutes (cancelable)	
Relative value	√	
Data retention	√	
Work environment	0~40 °C (<90% RH non condensing)	
Storage environment	-20~60 °C (<75%RH)	
Power Supply	9V battery	
Sampling rate	2 times/second	
Spectral range	320~730nm	
Sensor type	silicon photocell	
Size	154*60*31mm	
Weight	About 185g (including battery)	



816



816B



816BL

Anemometer

Basic function	816	816B/816BL
Measurement items	Air velocity, Air temperature	Air velocity, Air temperature
Range of air velocity	0~30m/s, 0~90km/h, 0~5860ft/min, 0~55knots, 0~65mph	0~45m/s, 0~140km/h, 0~8800ft/min, 0~88knots, 0~100mph
Accuracy of air velocity	±5%	±3%
Range of air temperature	-10~45℃, -14~113℉	0~45℃, 32~113℉
Accuracy of air temperature	±2℃	±2℃
Resolution	0.2℃; 0.2m/s	0.2℃; 0.2m/s
Max/Average/Current air velocity reading	✓	✓
℃/℉ Selection	✓	✓
Wind chill indication	✓	✓
Beauford Scale	✓	✓
Auto/Manual power off	14 minutes without any operation	✓
Low battery indication	✓	✓
LCD Backlight	12 seconds active by press any key	LCD Backlight ON/OFF selection
Power	CR2032 3.0V	3 1.5V batteries 7 # (LR03)
Dimension	105×40×18.5mm	816B/BL: Host:149*59*30mm Fan blade: 176*59*30mm
Net weight	52g (including battery)	251g(816B) 270g(816BL)



230DW

Model	230DW
Power supply	DC5V / 2A
Sensor type	High precision digital sensor
Sampling rate	One times/2s
Ambient temperature	Temperature -20℃~60℃ Accuracy ±1.0℃ Resolution 0.1℃
Relative humidity	Range 0~100%RH Accuracy ±4%RH Resolution 0~99(0.1)%RH 100(1)%RH
Temperature alarm range	Hi -19℃~60℃ Low -20℃~59℃
Humidity alarm range	Hi 2~99%RH Low 1~98%RH
WiFi	Yes
Alarm function	Voice+display alarm, alarm value can be set
Display	Nixie tube display; Display size: 1.8-inch single word
Max Display	Temperature 60.0; Humidity 99% RH
Over range	Display "Hi" or "Lo" at the highest position
Size	323* 173*40mm
Weight	About 700g



230



230A



330



6801

Basic Function	230	230A	330
Function	✓	✓	✓
Temperature Measuring Range	(0~50) ℃ / (32~120) ℉	✓	✓
Temperature Range of External Probe	(-2~70) ℃ / (-4~158) ℉	✓	✓
Humidity Range	(20%~90% RH)	✓	✓
Temperature Accuracy	±1.0℃ (1.8℉)	✓	✓
Humidity Accuracy	±5% (40%~80% Others ±8%)	✓	✓
Temperature Resolution Display	0.1℃ (0.1℉)	✓	✓
Special Function			
Temperature/Humidity Display	✓	✓	✓
Temperature / ℃/℉ switch	✓	✓	✓
Alarm Clock	✓	✓	✓
12/24 hours system clock	✓	✓	✓
Alarm On Schedule	✓	✓	✓
Calendar Display	✓	✓	✓
Maximum / Minimum Temperature And Humidity Memory	✓	✓	✓
Battery	AAA 1.5V	AAA 1.5V	AAA 1.5V
Product Size	95x105x17mm	95x105x17mm	110x59x16mm

Note: 230 and 230A can't be tested for industry use. The test results are just for reference.

Basic function	6801
Function	Resolution Range Basic accuracy
1℃	1℃ -50~1000℃ ±(0.3%+2℃)
1℃	1℃ 1000~1300℃ ±(0.5%+2℃)
1℉	1℉ -238~1000℉ ±(0.3%+2℉)
1℉	1℉ 1000~2372℉ ±(0.5%+3℉)
Special function	
Unit symbol display	✓
Max. display	10000 (3 1/2 digital LCD with max. reading of 1999)
Sample rate	2.5 times/s
Storage environment / relative humidity	Temperature 0℃~50℃ (32℉~122℉), relative humidity < 80%
Over range indication	The MSD "1" or "1" displays
Measuring method	TP01 K-type temperature probe
Measuring range	-50~1300℃ / -58~1999℉
Dimension	149*71*35mm
Weight	200g
Power	2*1.5V AAA

New Model



231/231A

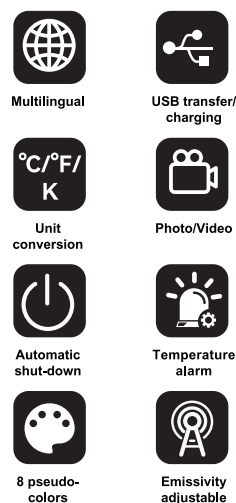
Model	231 (Normal model)	231A (Bluetooth model)
LCD	4-digit LCD display	
Temperature range	-25℃~75℃(-13℉~167℉)	
Humidity range	0~99.9%RH	
Temperature accuracy	±0.3℃(15~40℃)Other ±1℃	
Humidity Accuracy	±3%RH(30~80%RH)Other ±4%RH	
Temperature resolution	0.1℃	
Humidity resolution	0.1%RH	
Temperature max/Min/Alarm	✓	
Humidity max/Min/Alarm	✓	
Data retention	✓	
Working environment	0~40℃(<90%RH non-condensing)	
Storage environment	-20~60℃(<75%RH)	
Power supply	3 1.5V batteries (7#) or USB Type-C power supply	
Sampling rate	1 time/second	
Shell material	ABS	
Size	169*56*32mm	
Weight	About 150g (including battery)	



320/320M



320B



328A/328B

Technical indicators

Basic skills		320M	320	320B
IR thermal imaging	Resolution	120x90	120*90	256*192
	Working band	8~14um		
	Frame rate	25Hz		
	NETD	60mK@25°C		
	Field of view	38°X50°		55.6°*42°
	Lens	2.3mm F1.1		
	Scope	-20~400°C		
	Precision	±3°C or ±3% of reading		
	Emissivity	0.01 to 1.00 adjustable		
	Support point	Full screen maximum/minimum/center/area temperature measurement		
Visible light	Swatches	Iron Red, White Hot, Black Hot, Rainbow, Red Hot, High Contrast, Green Hot, Lava		
	Resolution	720P		
Image display	Field of view	55°X83°		
	Image mode	Edge blending, overlay blending, picture-in-picture, single IR, single visible light		
Storage	Capacity	8G built-in memory, can store more than 20,000 pictures		
	Image storage format	JPG		
Basic parameters	Video format	MP4		
	Language	Chinese (Simplified), Chinese (Traditional), English, French, German, Spanish, Dutch, Japanese, Korean, Arabic		
Power supply		Built-in 2600mAh large capacity rechargeable battery		
Display size		2.8 inches		
Body color		Black		
Body weight		About 310g		
Dimensions		70*80*200mm		
Standard accessories		USB Type-C data cable, GB charging head, lanyard, manual		
Standard inner packaging		Color box		
Package size		50*45*34cm		

Mobile thermal image camera

Parameter	328A	328B
Resolution	160*120	256*192
Working wavelength	8~14μm	
Frame rate	25Hz	
NETD	< 50mK @26℃	
Field of view	35°*27°	56°*42°
Lens	3.2mm	
Measuring range	-15℃~600℃	
Precision	±2℃Cor ±2%	
Temperature measurement	The highest point, the lowest point, the center point temperature measurement and the regional temperature measurement	
Swatches	6	
Universal		
Language	Chinese /English	
Operating temperature	-10℃~ 75℃	
Storage temperature	-45℃~ 85℃	
Water proof	IP54	
Product Size	34mm X 26.5mm X 15mm	
Product weight	19g	



328C

New Model

USB Type-c

VICTOR 328C Mobile TELEPHOTO INFRARED THERMAL IMAGER 10mm lens focus 256*192 resolution with GPS positioning

Widely used in fields such as underfloor heating leak detection, electrical maintenance, and more suitable for outdoor long-distance plain use (such as camping exploration, wilderness survival/rescue, night running and hiking, animal observation).

Technical data

Basic Function	328C
Resolving power	256x192
Working wavelength	8~14μm
Frame rate	25Hz
NETD	<50mK@25°C
FOV	17.5°x 13.2°
Focal length	10mm
Focus Mode	Fixed focus
Electronic amplification	1x-4x stepless amplification (through screen gestures)
Color palette	Iron Red, Rainbow, White Heat, Black Heat, Cold Blue, Red Heat
Hotspot tracking	✓
GPS	Can be displayed in the app
Electronic compass	Can be displayed in the app
Screen rotation	✓
Photograph	✓
Videotape	✓
Language	Chinese, English
Working temperature	-20°C~60°C
Storage temperature	-40°C~85°C
Waterproof and dustproof	IP54
Source	Used in conjunction with mobile phones, plug and play
Display Size	No display screen, used in conjunction with mobile apps
Body size	36x29.5x27.5mm
Parts	Storage bag, bracket, data extension cable, manual

328D/328E



VICTOR 328D/328E infrared thermal imager visible light digital camera with 640x480 auxiliary imaging, excellent imaging effect

- LCD display: maximum display 4000, word height 15mm
- General characteristics: Maximum voltage between voltage input terminal and ground CAT II 600V.
- Display method: LCD display, with a maximum reading of 4000
- Measurement principle: Double integral A/D conversion, automatic range
- Measurement rate: 3 times/second
- Unit display : with functions and display of unit symbols for electricity consumption

Technical data

Basic Function	328D	328E
Resolving power	160x120	256x192
Working wavelength	8~14μm	
Frame rate	25Hz	
NETD	<50mK@25°C	
Lens	3.2mm	
Field of view angle	56°x42°	35°x27°
Range	-15°C ~ 600°C	
Accuracy	±2°C or ±2% of reading	
Visible light		
Resolving power	640x480	
Frame rate	25Hz	
Software functions [APP]		
Temperature measurement	High and low temperature tracking, center point, point, area, and line temperature measurement, temperature range viewing	
Image display mode	Visible light mode, multiple visible light and infrared fusion modes, single infrared mode display.	
Temperature quick check	Supports one click quick access to high temperature areas.	
Interval display	✓	
Real time flipping	✓	
Image color palette	Iron Red, White Heat, Black Heat, Rainbow, Red Heat, Cold Blue	
Photograph	✓	
Videotape	✓	
Image editing	Supports image graffiti and text notes	
Set up	Parameter configuration, temperature units, language, and high temperature alarm settings.	
Software functions [APP]		
Working temperature	-10°C ~ 75°C	
Storage temperature	-45°C ~ 85°C	
Protect	IP54	
Body weight	22g	
Body size	51.6mmx34mmx13.2mm	



360S

Technical indicators

Basic skills		
Infrared Thermal Imaging	Resolution	320x240
	Frequency band	8~14um
	Frame rate	9Hz
	NETD	70mK@25°C (77°F)
	Field of view	Horizontal 34.4°, vertical 25.8
	Lens	6.5mm
	Temperature range	-10°C ~ 450°C (14°F ~ 842°F)
	Temperature measurement accuracy	±2°C or ±2%
	Temperature measurement	Hottest, coldest, central point, zone area temperature measurement
Visible	Color palette	Tyrian, white hot, black hot, iron, rainbow, glory, Hottest, coldest.
	Resolution	640x480
	Frame rate	25Hz
	LED light	Support
Display	Display Resolution	320x240
	Display Size	3.5 inch
	Image mode	Outline fusion, overlay fusion, picture-in-picture, infrared thermal imaging, visible light
General	Working time	5000mah battery, >4 hours in 25°C (77°F)
	Battery Charge	Built-in battery, it is recommended to use +5V & ≥2A universal USB charger
	WiFi	Support App and PC software data transmission
	Operating temperature	-20°C~+60°C (-4°F ~ 140°F)
	Storage temperature	-40°C~+85°C (-40°F ~ 185°F)
	Waterproof and dustproof	IP54
	Camera Dimension	230mm x 100mm x 90mm
	Net weight	420g
	Package dimension	270mm x 150mm x 120mm
	Gross weight	970g
Storage	Capacity	Built-in memory, about 6.6G available, can store more than 20,000 pictures
	Picture storage mode	Simultaneous storage of infrared thermal imaging, visible light and fusion images
	File format	TIFF format, support full frame pictures temperature analysis
Image analysis	Windows platform analysis software	Provide professional analysis functions to analyze full pixels temperature analysis
	Android platform analysis software	Provide professional analysis functions to analyze full pixels temperature analysis
Interface	Data and charging interface	USB Type-C (Support battery charging and data transmission)
Secondary development	Open interface	Provide WiFi interface SDK for secondary development



303B



302B

Technical data

Main function	303B	302B
Temperature Range	--20°C ~ 550°C (-4°F ~ 1022°F)	--32°C ~ 380°C (-25.6°F ~ 716°F)
Resolution	0.1°C/0.1°F	0.1°C/0.1°F
Accuracy	±2.0°C or ±2%	±2.0°C or ±2%
Display unit	°C/°F	°C/°F
Auto power off	√	√
Back light	√	√
Data Hold	√	√
Distance Spot Ratio	12:1	12:1
Emissivity	0.1~1.0 adjustable	0.1~1.0 adjustable
Size	97*43*160 mm	93*37*143mm
Weight	130g	105g
Power	9V battery	1.5V*2 battery



306B/307C

Model	306B	307C
Range	(-50~700) °C (-58~1292) °F	(-20~800) °C (-4~1472) °F
Precision	(-50~0) °C ±3 °C (0~100) °C ±1.5 °C (100~700) °C ±1.5%	(-20~0) °C ±3 °C (0~100) °C ±1.5 °C (100~800) °C ±1.5%
Emissivity adjustable	0.10~1.00 adjustable (preset 0.95)	
LCD display resolution	0.1 °C/1 °F	
Dual range display	✓	
max/min	✓	
Difference/Average	✓	
High/low temperature alarm	✓	
°C/°F selection	✓	
Laser can be turned off	✓	
display hold	✓	
Backlit display	✓	
Automatic shut-down	✓	
low battery indicator	✓	
Spectral response	8um~14um	
Laser power	Output < 1mw, wavelength 630~670nm, class2(I	
Power supply	9V battery (NEDA1604/6F22 or equivalent)	
Basic size	97mmx43mmx160mm	
Weight	125g (without battery)	



304D



304F



304E



308D/310C

Model	308D	310C
Temperature Range	-30°C~1150°C (-22°F~2102°F)	-20°C~1650°C
Max. Display	4 digits LCD Display	4 digits LCD Display
Resolution	0.1°C/0.1°F	0.1°C/0.1°F
Accuracy	±1.5% or ±1.5 °C	±1.5% or ±1.5 °C
Display Unit	°C/°F	°C/°F
Auto Power Off	✓	✓
Backlight	✓	✓
Response Time(90%)	0.5s	0.5s
D:S	50:1	50:1
Emissivity	0.1~1.00 Adjustable	0.1~1.00 Adjustable
Operation Temperature	0°C~50°C	0°C~50°C
Size	141×60×200mm	141×60×200mm
Weight	270g	270g
Standard Inner Package	Color Box	Color Box
Power	9V Battery	9V Battery

Technical parameter

Main Function	304D	304E	304F
Measuring temperature range	-50°C~400°C (-58°F~752°F)	-50°C~600°C (-58°F~1112°F)	-50°C~900°C (-58°F~1652°F)
Measurement accuracy	-50°C~0°C (-58°F~32°F): ±3°C (±5°F) 0°C~900°C (32°F~1652°F): ±1.5%rdg (1.5%) whichever is greater		
Repeatability	1%rdg or 1°C whichever is greater		
Reaction time	About 0.5s, 95% response		
Infrared wavelength	5-14 μ m		
Object distance ratio	12:1		
No operation shutdown time	About 7s		
Low battery prompt	<2.4V battery symbol display		
Overload indication	LCD display "Hi"/"Lo"		
Working environment upper/lower limit	LCD display "AH"/"AL"		
Ambient working temperature	0 ~40°C (32 ~ 104°F)		
Ambient storage temperature	-10~60°C (14~140°F)		
Power supply	1.5V AAA*2 battery		



63/63A/63B



65



65B



66B

Technical data

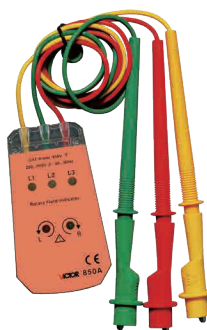
Model	63	63A	63B
Characteristic	Simple structure: convenient operation: integrated design. Just need to align the instrument probe with the measured object and press the measurement key to measure.	The front end of the sensor is equipped with a long probe; It is convenient to measure the equipment vibration in a narrow space. The sensor and display adopt separate structure to facilitate the measurement of different angles and spaces.	The sensor uses a high-strength magnet to adsorb on the measured object, which can collect the vibration signal more accurately. The sensor and display adopt separate structure to facilitate the measurement of different angles and spaces
Measuring range			
Vibration displacement (P-P)	0~1999um	0~1000um	0~1999um
Vibration velocity (RMS)	0~199.9mm/s	0~71 mm/s	0~199.9mm/s
Vibration acceleration (O-P)	0~199.9m/s²		0~199.9m/s²
Frequency response			
Acceleration	10Hz~1kHz		10Hz~1kHz
Speed	10Hz~500Hz	12Hz~500Hz	10Hz~500Hz
Displacement	10Hz~200Hz	12Hz~200Hz	10Hz~200Hz
Basic Function			
Measurement Accuracy	±10%		
Ambient Temperature	0~40℃		
Relative Humidity	≤80%		
Atmospheric Pressure	75~106Kpa		
Other Function			
Low Voltage Indication	If the battery voltage is lower than 5.5V, the low voltage prompt is displayed		
Data Retention Time	After releasing the measurement key, the data is held for 1 minute		
Indication Fluctuation	The indication fluctuation shall not be greater than one resolution		
Basic parameters			
Power Supply	9V		
Display Size	50*13mm		
Fuselage Size	185*68*30mm		
Fuselage Weight	160g(Including battery)		

Technical data

Model	65	65B	66B
Measuring range Vibration shift (P-P)	1~1999umP-P (RMSX2.828)	1~1999umP-P (RMSX2.828)	0.01~19.99mmP-P (RMSX2828)
Measurement range Vibration speed (RMS)	0.1~199.9mm/s RMS	0.1~199.9 mm/s RMS	0.1~199.9mm/s RMS
Measurement range Vibration accelerated speed	0.1~199.9m/s² Peak(RMS*1.414)	0.1~199.9m/s² Peak(RMS*1.414)	0.01~19.99m/s² Peak(RMS*1.414)
Frequency response accelerated speed	10Hz~1kHz(LO), 1kHz~15kHz(HI)	10Hz~1kHz(LO), 1kHz~15kHz(HI)	0.5Hz~200Hz
Frequency response range speed	10Hz~1kHz(LO)	10Hz~1kHz(LO)	0.5Hz~200Hz
Frequency response range shift	10Hz~1kHz(LO)	10Hz~1kHz(LO)	0.5Hz~100Hz
Measurement accuracy	5% ± 2 characters	5% ± 2 characters	5% ± 2 characters
Low voltage indication	battery voltage lower than 5.5V, display low voltage	battery voltage lower than 5.5V, display low voltage	battery voltage lower than 5.5V, display low voltage
Dataholdtime	After releasing the measurement key, the data will be held for one minute	After releasing the measurement key, the data will be held for one minute	After releasing the measurement key, the data will be held for one minute
Indication value fluctuation	Indication value fluctuation is not greater than one resolution	Indication value fluctuation is not greater than one resolution	Indication value fluctuation is not greater than one resolution
Ambient temperature	0~40°C	0~40°C	0~40°C
Relative humidity	≤ 80%	≤ 80%	≤ 80%
Atmospheric pressure	75~106Kpa	75~106Kpa	75~106Kpa
Power supply	9V battery		
Display size	50*13mm		
Weight	160g(Including battery)		
Size	185(H) X68(W) X30(D) mm		



850



850A



850C/850D

Technical data

Basic Function / Feature	850	850A
Product way	Contact way by LED and buzzer	
Function	Check the state of open phase and phase sequence	
Voltage range	200~480V	200~600V
Measuring frequency range	20~400Hz	
Test cable length	1m	
Product dimension	98*58*23mm	
Weight	132g	
Batteries	Without the use of batteries	

Technical data

Basic function	850C	850D
Vised wire size	Outer diameter ϕ 1.6mm- ϕ 16mm	
Power supply	DC 3V (AA/LR6*2 alkaline dry batteries, continuously working for 70 hours)	
Performance-guarantee range	AC70~1000V, 45~65Hz (sine wave continuously input)	
LED display	【Positive Phase Sequence】 The four phase-sequence lamps blink in order (clockwise)	
	【Negative Phase Sequence】 The four phase-sequence lamps blink in order (counterclockwise).	
	【Line-voltage Indication】 L1、 L2、 L3 lamp light up	
	【Default Phase】 L1/L2/L3 lamp is off	
	【Open Circuit】 L1/L2/L3 lamp is off	
Buzzer	【Positive Phase Sequence】 The buzzer sounds intermittently	
	【Negative Phase Sequence】 The buzzer sounds continuously	
Power indication	POWER indicator light up after turn on; LOW BATTERY lamp light up if the battery needs to be replaced	
Magnetic force	Instrument base plate is provided with four magnets, suction hanging in the electrical box, can withstand 800g quality	
Auto Power off	The power will be turned off automatically if the instrument remains idle for 5 minutes after the power is turned on	
Clamp lead wire length	0.6m	
Dimension	70W*75H*30D (mm)	
Weight	About 200g (including batteries)	
Max. rated voltage	AC 1000V	
Dielectric strength	5.4kVrms	
Max. rated power	300mVA	
Accessories	Batteries LR6: 2pcs bag: 1pc rope: 1pc	



668A

Technical data

Line search (SCAN)	Find out the desired cable from a large number of cables.
Cable proofreading (TEST)	Fast measurement of open circuit, short circuit, sequence.
Line voltage test (VOLT)	Measuring the working voltage and positive or negative of phone line.
Continuity test (OHM)	Checking the phone which is under open circuit or short circuit. (Phone line isn't connected to any live equipment)
Torch function	Super bright and white light torch function
Adjustable sensitivity	The volume can be adjusted according to your need when using it.
Headset function	In noisy occasions, headphones can be worn to work.
Frequency conversion of line signal	You can set different frequencies to find lines.
Weak current-turn on test	Can be connected to the Phone line / Ethernet switch/ Router/ Line hunting when the PC terminal is power on. The measured voltage should not exceed 48V.

ELECTRIC STATIC CHARACTERSTIC

Current	transmit currents $\leq$ 45mA, receive currents100mA
Battery	receiver 9V battery; transmitter AA 1.5V battery *3
Transmission distance of hunting line	$\geq$ 3km
Safety	safe to use (the probe can directly contact the exposed metal wire)

Technical indicators

Hunting line function	✓
Paired function	✓
Continuity test of short circuit	✓
Line voltage	✓
Sensitivity adjustable	✓
Torch	✓
Display	LED light
Distance of hunting line	3 km
Output signal level	Approx 23Vp-p (frequency adjustable)
Other function	Energy saving design, sensitivity adjustable, low voltage detection, headset function.
Packing	Color box ; tool bag



2GA

Wood Moisture Tester Specification 2GA

Sensor: Resistance(conductivity measurement)moisture humidity sensor, temperature sensor
Parameter: % humidity(wood or building material) °C/°F temperature
Measuring range: See section "Instrument operation"
resolution: 0.1%,1°C. Max. error(at 25°C,±1digit)
moisture test %: ±2%; temperature test: ±2 °C
Measurement rate: 0.5 seconds
Protection class: IP 20
Ambient temperature: (- 10 - 50) °C 20-50%RH
Storage temperature: (- 40 -70) °C 20-50%RH
Power supply: 1 section 6F22 9V battery
Weight: About150g (including battery and protective cover)
EC Directive: 2004/108/EEC

Adjustable material Measurement range (weight ratio)

Adjustable paper type	Characteristic curve
beech, spruce, larch, birch, cherry, walnut	8.8-54.8%
Oak, pine, maple, gray trees, Douglas fir, Eucalyptus urophylla	7.0-47.9%
Cement mortar layer, Concrete	0.9-22.1%
Anhydrous gypsum mortar layer	0.0-11.0%
Cement mortar	0.7-8.6%
Lime mortar, gypsum	0.6-8.6%
Brick	0.1-16.5%



2GB

Paper Moisture Tester Specification 2GB

Products Feature
 Double Injection Case, stylish and solid.
 3 species of trees intelligent selection to avoid self-calculation of users.
 Wide Range: 5%~40%.
 Self-calibrating makes the operation simple.
 LCD digital display makes the reading clear and straight.

General Characters	2GB
Display	2 digits LCD Display with 15mm-high figure
Resolution	1%
Range	5%~40%;Accuracy:±1%rdg+1d
Power	9V(6F22)

Mini Digital Torque Wrench

The mini digital wrench is designed in a miniaturized shape and is more suitable for the operation in a narrow space. Meanwhile, it has complete operating functions including torque setting function, unit setting function, numerical value storage function, numerical value eliminating function, numerical value output function and user correction function. It is easy to operate. The mini digital torque wrench is provided with the digital display screen, so that the requirement on operators is reduced. The mini digital torque wrench is suitable for fastening and controlling bolts in automobile industry, machinery industry, etc.

Function features

1. It has a large screen and has the backlight function.
2. The clockwise accuracy is ±2%, and the counterclockwise accuracy is 2.5% (20% to 100% of the full measuring range).
3. It can be operated both in the clockwise direction and the counterclockwise direction.
4. The buzzer and the LED indicator are triggered when reaching a preset torque value (peak-limited mode).
5. It has four engineering units (N.m, kgf.cm, lbf.ft, lbf.in).
6. It has three measuring modes, i.e. real-time mode, peak mode and preset mode.
7. It has 999 sets of storable record values.
8. It can be automatically powered off in 5 minutes.



NGM-10

Technical data

Model	NGM-10	NGM-30	NGM-60	NGM-100
Minimum division value	0.01			
Maximum operating range(N.m)	10N.m/7.37lbf.ft/88.50lbf.in/101.97kgf.cm	30N.m/22.12lbf.ft/265.5lbf.in/305.91kgf.cm	60N.m/44.25lbf.ft/531.04lbf.in/611.82kgf.cm	100N.m/73.7lbf.ft/885.0lbf.in/1019.7kgf.cm
Connector(inches)	1/4		3/8	1/2
Setting range of buzzer(N.m)	0.3~10	0.9~30	1.8~60	3~100
Length (mm)	230		240	285
Accuracy*1	Clockwise: ±2% Counterclockwise: ±2.5%			
Data storage capacity	999			
Operating mode	Peak mode(P) / Real-time mode(T) / Preset mode(Pre)			
Unit	N.m, kgf.cm, lbf.ft, lbf.in			
Form of ratchet head	Bidirectional ratchet head			
Number of ratchet teeth	72 teeth			
Number of keys	5			
Battery	Two AAA batteries			
Operating temperature	-10 °C to 60 °C			
Storage temperature	-20 °C to 70 °C			
Test falling height	one meter			
Vibration test condition*2	10G			
Service life test*3	10000 times			



842A



842B



842C



842D

Technical parameter

Mode	842A	842B	842C	842D
Max distance	50M	70M	100M	120M
Precision	±(1.5mm+d*Five hundred thousandths)			
Continuous measurement		√		
Area volume measurement		√		
Pythagorean measurement		√		
Addition and subtraction measurement		√		
Area volume addition and subtraction		√		
Max/min		√		
Self-calibration		√		
Backlight		√		
Laser class			II	
Laser type		level 2 635nm, <1 mW		
Storage number		99 pens		
Automatically cut off the laser		20 seconds		
Automatic shut-down		150 seconds		
Voice prompt		√		
Storage temperature		-20°C ~60°C		
Operating temperature		0°C~40°C		
Storage humidity		20%~ 80%RH		
Battery		1.5V AAA		
Size		112*50* 25mm		

AUTOMOTIVE BRAKE FLUID TESTER

The 2GE brake oil detector is an instrument that quickly detects the brake fluid performance of the vehicle by detecting the moisture content of the automobile brake fluid. The instrument supports three types of DOT3 / DOT4 / DOT5.1, which meets the requirements of different users and provides favorable help for customers to replace the brake oil in time.

Detect three types of vehicle brake fluid: DOT3 / DOT4 / DOT5.1

Nickel-plated metal probe, effectively prevent oil and oxidation, rapid measurement

High precision of 240mm no-rust snakeskin probe connection tube

6.9v laminated battery power supply, strong endurance

2GE
water content LED indicator
detect
sound, light dual alarm function
Brake fluid type to select (DOT3/DOT4/DOT5.1)



2GE

Product specifications

Project	2GH	2GHS	2GY
Measuring range	0.0-55% Brix	0.0-55% Brix	0.0-28% Brix
Graduation value	0.1Brix/0.1°C	0.5Brix/0.1°C	0.1Brix/0.1°C
Precision	±0.2Brix/1°C	±0.5Brix/1°C	±0.2Brix/1°C
Use environment	10-80°C	10-80°C	10-80°C
Sample volume	≥0.2ml(3-5) drop	≥0.2ml(3-5) drop	≥0.2ml(3-5) drop
Measure time	≈3S	≈3S	≈3S
Power supply	2 AAA alkaline batteries	2 AAA alkaline batteries	2 AAA alkaline batteries
Battery Life	≈2000 times	≈2000 times	≈2000 times



2GH

Accessories

NO.	Product description	Quantity
1	Digital refractometer	1
2	AAA alkaline battery	2
3	Instruction manual	1
4	Glasses cloth	2
5	Waterproof rubber mat	1
6	Phillips screwdriver	1
7	dropper	2
8	Cross recessed pan head tapping screw M1.9*5	4
9	Carton Size	52.5*27.2*25cm
10	QTY/Carton	16
11	G.W/Carton	6.3kg



2GHS



2GY

152S

New Model



VICTOR 152S Handle Digital Oscilloscope

Victor 152S Manufactory New Designed 50mhz Handle Digital Oscilloscope

Oscilloscope parameters

Characteristic	Describe	
Bandwidth	50MHz	Dual channel
Sampling	Way	Real-time sampling
	Sampling rate	280MSa/s
Number of channels	2	Dual channel
Input	Input Coupling	DC, AC
	Input impedance	1MΩ, @ 16pf
	Probe Attenuation	x1, x10, x100
	Maximum input voltage	X1 gear<150V, x10 gear<300V
Level	Sampling rate range	1.5MSa/s
	Waveform interpolation	(sinc)x
	Scanning speed range	10ns/div~20s/div
	Time base accuracy	20ppm
	Record length	Up to 128Kbyte
Vertical	Sensitivity	20mV/div~10V/div
	Displacement range	4 grids (positive and negative)
	Analog bandwidth	50MHz
	low-frequency response	Greater than 10Hz
	Rise time	Less than 10ns
Measure	DC gain accuracy	±3%
	Automatic measurement	Cycle, frequency, peak to peak value, maximum value, minimum value, root mean square, duty cycle, average value
Trigger	Trigger Mode	Automatic, normal, single time
	Trigger Edge	Rising edge, falling edge
Signal generator output		Sine wave, square wave, triangular wave, half wave, full wave, sawtooth wave
Display mode	YT, XY	
Afterglow mode	Minimum, 500ms, 1S, 10S, Unlimited	

Output of probe compensator

Characteristic	Describe
Output voltage (typical)	3Vpp, high impedance
Frequency (typical)	Square wave 1kHz (± 1%)

Outline specification

Characteristic	Describe	Accuracy
Display type	3.2-inch color LCD display	
Resolution	320*240	
Power supply	3.7V 2200mAh rechargeable lithium battery	
Work environment	0~40℃	
Relative humidity	<80%	
Product size	181*89*40mm	
Product weight	About 380g (excluding battery)	

Multimeter parameters

Features	Range	Accuracy
DC voltage (mV)	25.000mV/250.00mV	±(0.05%+5)
DC voltage (V)	2.5000V/25.000V/250.00V/1000.0V	±(0.1%+10)
DC current	25.000mA/250.00mA/2.5000A/10.000A	±(0.5%+10)
AC voltage (mV)	25.000mV/250.00mV	±(0.1%+8)
AC voltage (V)	2.5000V/25.000V/250.00V/750.0V	±(0.5%+10)
AC current (mA)	25.000mA/250.00mA	±(0.5%+10)
AC current (A)	2.5000A/10.000A	±(0.8%+10)
Resistance	250.00Ω/2.5000kΩ/25.000kΩ/250.00kΩ/2.5000MΩ/25.000MΩ/250.0MΩ	±(1.0%+10)
Capacitance	9.999nF/99.99nF/999.9nF/9.999μF/99.99μF/999.9μF/9.999mF/99.99mF	±(2.0%+10)
Frequency	99.99Hz/999.9Hz/9.999kHz/99.99kHz/999.9kHz	±(0.1%+2)
On-off	The buzzer sounds for a long time	
Diode tube	Open circuit voltage is about 3.2V	
Digital display	25000 readings/capacitance (9999 readings)	

Signal generator parameters

Function	Describe	
Frequency	Sine wave	1Hz~5MHz
	Square wave	1Hz~2MHz
	Triangular wave	1Hz~2MHz
	Half-wave	1Hz~2MHz
	Full wave	1Hz~2MHz
	Sawtooth wave	1Hz~500kHz
Sampling rate	200MSa/s	
Amplitude (50 Ω)		0.3Vpp~3Vpp
	Sine wave	1Hz~3.999999MHz
	Square wave	1Hz~2MHz
	Triangular wave	1Hz~1.7MHz
	Half-wave	1Hz~2MHz
	Full wave	1Hz~1.7MHz
	Sawtooth wave	1Hz~300kHz
		1Hz~500kHz
DC offset range	0	
Frequency resolution	1Hz	
Thoroughfare	1	
Waveform length	256Byte	
Vertical Resolution	8bit	
Output Impedance	50Ω	



240/240S

270/270S

2102/2102S

2202/2202S

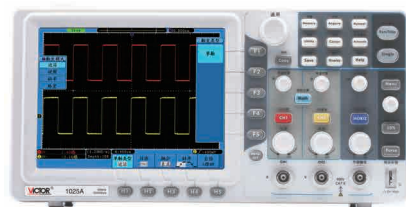
Technical data

Basic skills	240/240S	270/270S	2102/2102S	2202/2202S
Bandwidth	40 MHz	70 MHz	100 MHz	200 MHz
Real-time sampling rate	125 MSa/s (Dual channel)	250 MSa/s (Single channel)	250 MSa/s (Dual channel)	1 GSa/s
Aisle	2			
Sampling method	Normal, peak sampling			
Sampling Rate	125 MSa/s (dual channel), 250 MSa/s (single channel)			
Record length	When single channel: 8K maximum, when dual channel: 4K			
Wave refresh	10,000 wfms/s			
Input coupling	DC, AC, ground			
Input impedance	1 MΩ±2%, in parallel with 16pF±10 pF			
Probe coefficient	1X- 10X- 100X- 1000X			
Max input voltage	400V (DC+AC peak value)			
Time base range	5ns/div-1000s/div, step by 1-2-5			
Vertical sensitivity	10mV/div~10V/div			
Vertical resolution	8bit			
Cursor	Voltage difference (ΔV), time difference (ΔT)			
Auto measurement	Period, frequency, amplitude, peak-to-peak, max, min, average			
Trigger type	Edge trigger			
Trigger method	Automatic, normal, single			

Basic skills	Range	Accuracy
DC voltage	200.00mV	±(0.05%+5dig)
	2.0000V/20.000V/200.00V	±(0.3%+3dig)
	1000.0V	±(0.5%+2dig)
AC voltage	200.00mV/2.0000V/20.000V/200.00V	±(0.8%+5dig)
	750.0V	±(1%+5dig)
DC current	200.00mA	±(0.8%+2dig)
	10.000A	±(2.5%+2dig)
AC current	200.00mA	±(1%+5dig)
	10.000A	±(2.8%+5dig)
Resistance	200.00Ω/2.0000kΩ/20.000kΩ/200.00kΩ/2.0000MΩ	±(0.8%+3dig)
	20.000MΩ	±(1%+3dig)
	100.00MΩ	±(3%+3dig)
Capacitance	20.000nF/200.00nF/2.0000μF/20.000μF/200.00μF/2.0000mF	±(3.0%+10dig)
Continuity test	√ (<50Ω)	
Diode test	√ (<0-2V)	
Auto range	√	
True effective value	√	

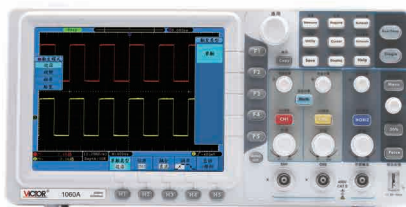
Signal generator function	240S/270S/2102S	
Frequency characteristics	Sine wave	0.1Hz~25MHz
	Rectangular wave	0.1Hz~5MHz
	Sawtooth wave	0.1Hz~1MHz
	Pulse wave	0.1Hz~5MHz
	Arbitrary wave	0.1Hz~
Sampling Rate	125MSa/s	
Amplitude (50Ω)	0.01Vpp ~ 2.5Vpp	
Aisle	1	
Wave length	8k	
Vertical resolution	14 bit	
Output impedance	50 Ω	

Basic parameters	
Power	2200mAh*2 (3.7V, 18650)
Display size	3.5-inch color LCD display
Body color	Black+orange
Body weight	About 0.6KG (without battery)
Dimensions	198 mm × 96mm ×38 mm
Accessories	Power adapter, USB cable, alligator clip cable (2 S type), test lead, probe calibration tool, manual



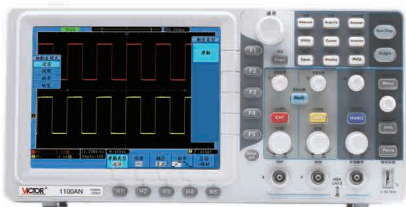
1025A

Basic function	1025A
Bandwidth	30MHz
Real-time sampling rate	500MS/s
Rise time	≤11ns
Record Length	10K pts
Channel	2 channels + external trigger
Display	8 inches TFT 65535 color LCD, 800*600 pixels
Interval time	Single: ±(1 sample interval time + 100ppm × reading + 0.6ns), × 16 average: ±(1 sample interval time + 100ppm × reading + 0.4ns)
Input coupling	DC, AC and GND
Input impedance	1 MΩ ± 2%, is in parallel with 10pF ± 5pF
Time base range	4ns/div ~ 100s/div, step from Unary numeral system to binary system and then quaternary
Vertical sensitivity	5mV/div ~ 10V/div (at the position which input BNC)
Vertical resolution	8 bits (simultaneous sampling of two channels)
Max. input voltage	400V (DC + AC peak value, input impedance of 1MΩ) (10:1 probe attenuation)
Power	100~240V AC RMS, CAT II
Dimension	348mm(length)*170mm(high)*78mm(Width)
Weight	1.5kg (without package)



1060A

Basic function	1060A
Bandwidth	60MHz
Real-time sampling rate	500MS/s
Rise time	≤5.8ns
Record Length	100K pts (10M is optional to update)
Channel	2 channels + external trigger
Display	8 inches TFT 65535 color LCD, 800*600 pixels
Interval time	Single: ±(1 sample interval time + 100ppm × reading + 0.6ns), × 16 average: ±(1 sample interval time + 100ppm × reading + 0.4ns)
Input coupling	DC, AC and GND
Input impedance	1 MΩ ± 2%, is in parallel with 15pF ± 5pF
Time base range	5ns/div ~ 100s/div, step from Unary numeral system to binary system and then quinary
Vertical sensitivity	2mV/div ~ 10V/div (at the position which input BNC)
Vertical resolution	8 bits (simultaneous sampling of two channels)
Max. input voltage	400V (DC + AC peak value, input impedance of 1MΩ) (10:1 probe attenuation)
Power	100~240V AC RMS, CAT II
Dimension	348mm(length)*170mm(high)*78mm(Width)
Weight	1.5kg (without package)

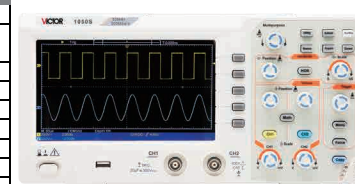


1100AN

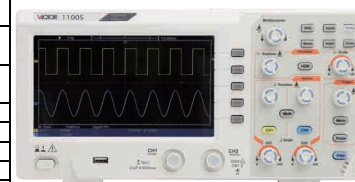
Basic function	1100AN
Bandwidth	100MHz
Real-time sampling rate	1GS/s
Rise time	≤3.5ns
Record Length	100K pts (10M is optional to update)
Channel	2 channels + external trigger
Display	8 inches TFT 65535 color LCD, 800*600 pixels
Interval time	Single: ±(1 sample interval time + 100ppm × reading + 0.6ns), × 16 average: ±(1 sample interval time + 100ppm × reading + 0.4ns)
Input coupling	DC, AC and GND
Input impedance	1 MΩ ± 2%, is in parallel with 15pF ± 5pF
Time base range	2ns/div ~ 100s/div, step from Unary numeral system to binary system and then quinary
Vertical sensitivity	2mV/div ~ 10V/div (at the position which input BNC)
Vertical resolution	8 bits (simultaneous sampling of two channels)
Max. input voltage	400V (DC + AC peak value, input impedance of 1MΩ) (10:1 probe attenuation)
Power	100~240V AC RMS, CAT II
Dimension	348mm(length)*170mm(high)*78mm(Width)
Weight	1.5kg (without package)

Performance Characteristics

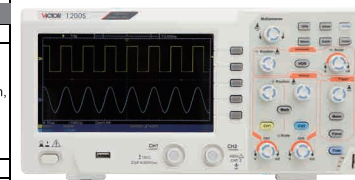
Mode	1200S	1050S	1100S
Bandwidth	200 MHz	50 MHz	100 MHz
Sample Rate(real time)	1single channel: 500MS/s; double channel: 1GS/s	500MS/s	1 GS/s
Channel	2		
Input coupling	DC, AC, Ground		
Input impedance	1 MΩ±2%, in parallel with 20 pF±5 pF		
Input coupling	1X, 10X, 100X, 1000X		
Max. input voltage	400V (DC+AC, PK - PK)		
Channel-channel isolation	50Hz: 100 : 1; 10MHz: 40 : 1		
Time delay between channel(typical)	150ps		
Bandwidth limit	Not support		20 MHz, full bandwidth
Sampling rate range	0.5 S/s~200 MS/s	0.5 S/s~500 MS/s	0.5 S/s~1 GS/s
Interpolation	(Sinx)/x		
Max Record length	10K		
Scanning speed (S/div)	5ns/div~1000s/div,step by 1~2~5~3.5ns	2 ns/div ~ 1000 s/div, step by 1 - 2 - 5	
Sampling rate / relay time accuracy	±100 ppm		
Interval(ΔT) accuracy (DC ~ 100MHz)	Single: ±(1 interval time+100 ppm×reading+0.6 ns); Average>16: ±(1 interval time + 100 ppm×reading+0.4 ns)		
Vertical Resolution (A/D)	8 bits (2 channels simultaneously)		
Sensitivity	5 mV/div ~ 5 V/div		
Displacement	±2 V (5 mV/div ~ 100 mV/div)±50 V (200 mV/div ~ 5 V/div)		
Analog bandwidth	200MHz	50 MHz	100 MHz
Single bandwidth	Full bandwidth		
Low Frequency	≥10 Hz (at input, AC coupling, -3 dB)		
Rise time (at input, Typical)	≤ 17.5 ns	≤ 7.0 ns	≤ 3.5 ns
DC gain accuracy	±3%		
DC accuracy (average)	Delta Volts between any two averages of ≥16 waveforms acquired with the same scope setup and ambient conditions (ΔV): ±(3% reading + 0.05 div)		
Waveform inverted ON/OFF			
Cursor	ΔV, ΔT, ΔT&ΔV between cursors,		
Automatic	auto cursor Period, Frequency, Mean, PK-PK, RMS, Max, Min, Top, Base, Amplitude, Overshoot, Preshoot, Rise Time, Fall Time, +Pulse Width,-Pulse Width, +Duty Cycle, -Duty Cycle, Delay A→B, Delay A→B, Cycle RMS, Cursor RMS, Screen Duty, Phase, +Pulse Count, -Pulse Count, Rise Edge Count, Fall Edge Count, Area, and Cycle Area.		
Waveform Math	+, -, *, / ,FFT		
Waveform storage	16 waveforms		
Lissajous figure	Bandwidth	Full bandwidth	
	Phase difference	±3 degrees	
Communication port	USB 2.0 (USB storage)		
Counter	Support		



1050S



1100S



1200S

Trigger	Instruction	
Trigger level range	Internal	±5 div from the screen center
Trigger level Accuracy (typical)	Internal	±0.3 div
Trigger displacement	According to Record length and time base	
Trigger Holdoff range	100 ns ~ 10 s	
50% level setting(typical)	Input signal frequency ≥ 50 Hz	
Edge trigger	slope	Rising, Falling
Video Trigger	Modulation	Support standard NTSC, PAL and SECAM broadcast systems
	Line number range	1-525 (NTSC) and 1-625 (PAL/SECAM)

NEW BATTERY TESTERS



3025A

3025B

3025C

Function	Range	3012	3013
Cold Cranking Amps	CCA	100~1700	✓
	IEC	100~1000	✓
	EN	100~1700	✓
	DIN	100~1000	✓
Internal resistance	0.00mΩ~99.99 mΩ	✓	✓
Working voltage	9V~18V	✓	✓
Battery status hint		✓	✓
12V Battery test		✓	✓
Starting load test		✓	✓
Charging system test		✓	✓
Overvoltage input protection		✓	✓
Polarity reverse Protection		✓	✓
LCD		✓	✓
LED			✓
Cable length		850mm	
Weight		320g	300g



3012



3013

Technical indicators

Basic skills	3025A	3025B	3025C
Applicable batteries	12 volt and 24 volt lead-acid batteries		
Optional battery standards	CCA: 100-2000		
	IEC: 100-1000		
	EN: 100-1700		
	DIN: 100-1000		
	JIS: To check the table and compare with CCA		
working temperature	(-18~50)°C		
Voltage range	(DC) 9V~35V		
Language	Switching between Chinese and English		
Test method	Four line Kelvin testing method		
Battery voltage display	✓	✓	✓
Battery level ratio display	✓	✓	✓
CCA measurement	✓	✓	✓
Battery life display	✓	✓	✓
Internal resistance detection	✓	✓	✓
Input protection	✓	✓	✓
Source	(DC) 9V~35V		
Display Size	60 x 45mm		
Body color	Black		
Body weight	291g		
Body size	150*85*30mm ; Line length 750mm		
Parts	Instruction manual and certificate of conformity		

Product name	3015	3025	3026
Applicable battery	12V Storage battery	12V/24V Storage battery	12V Storage battery
Print or not	No	No	Yes
CCA range	100~1700	100~1700	100~1700
Operating temperature	-18~50℃	-18~50℃	-18~50℃
Voltage range	9~18V	9~35V	9~18V
Battery range	30AH-200AH	30AH-200AH	30AH-200AH
Testing method	Kelvin four-terminal sensing		
Battery selection criteria	CCA: 100~1700 IEC: 100~1000 EN: 100~1700 DIN: 100~1000		
Main function	Battery starting test, engine system start load test, huge load system test, charging system test etc.		
Notes	This battery tester is only used for car battery testing measuring voltage range is 12V (12V~24V) Measuring CCA range is 100~1700 Battery range is 30AH-200AH Warning: the below cars of batteries are not allowed to test: electric vehicle, UPS batteries, electric tricycle		



3015/3025



3026



3015A

3015B

3015C

3015A	3015B	3015C
6/12V batteries≤20A discharge, 5~80AH test range	6/12V batteries≤80A discharge, 40~200AH test range	6/12V batteries≤80A discharge, 40~200AH test range
The internal resistance of battery will be tested synchronously	The internal resistance of battery will be tested synchronously	The internal resistance of battery will be tested synchronously
Micro-computer strictly control the discharge time, to reduce the battery damage	Micro-computer strictly control the discharge time, to reduce the battery damage	Micro-computer strictly control the discharge time, to reduce the battery damage
Over-temperature, anti-burning and reverse polarity protection	Over-temperature, anti-burning and reverse polarity protection	Over-temperature, anti-burning and reverse polarity protection
The meter will make a judgement automatically since the test finished; sound and light indicate	The meter will make a judgement automatically since the test finished; sound and light indicate	The meter will make a judgement automatically since the test finished; sound and light indicate
Tested reading hold automatically	Tested reading hold automatically	Tested reading hold automatically
Clear and direct-viewing display with four digits	Clear and direct-viewing display with four digits	Clear and direct-viewing display with four digits
Discharge time: less than 10s	Discharge time: less than 10s	Discharge time: less than 10s (for dynamic batteries measuring)
Battery amp hour rating testing range: 5~80AH	Battery amp hour rating testing range: 40~200AH	Battery amp hour rating testing range: 40~200AH
Internal resistance range of battery: 0~99mΩ	Internal resistance range of battery: 0~99mΩ	Internal resistance range of battery: 0~99mΩ
Usable scope: applicable to the dynamical type battery such as the batteries supply for electric bicycle, UPS batteries, solar storage energy batteries	Usable scope: applicable to the dynamical type battery such as the batteries supply for electric bicycle, UPS batteries, solar storage energy batteries	Usable scope: starter battery (car battery) Dynamic accumulator: applicable to the dynamical type battery such as the batteries supply for electric bicycle, UPS batteries, solar storage energy batteries
		Starter battery range: CCA: 100~1700 IEC: 100~1000 EN:100~1700 DIN: 100~1000 This is a battery tester which contains both testing method of dynamical battery and starter battery



3003/3003A

3005/3005A

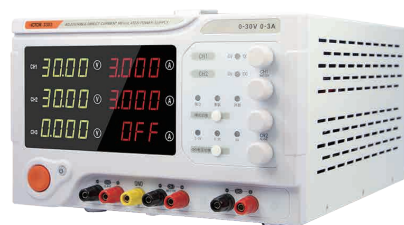
3010A

MAIN FEATURES

- LED digital display, simple and intuitive
- Automatic switching between stable voltage and stable current
- Equipped with an output control switch for more flexible control
- Overvoltage, over-current, over-power, over temperature, short circuit protection
- Convenient and fast operating interface
- The temperature controlled fan speed enables the instrument to have low noise function
- Pre designed voltage and current values for easy operation when the output is turned off

Technical data

Model	3003	3005	3003A	3005A	3010A
Output voltage	0~30V	0~30V	0~30V	0~30V	0~30V
Output current	0~3A	0~5A	0~3A	0~5A	0~10A
LED display	Dual 4-digit LED display				
Voltage resolution	<100V: 10mV ≥100V: 0.1V				
Current resolution	<10A: 1mA ≥10A: 10mA				
Power resolution	<10W: 1mW ≥10W: 10mW ≥100W: 0.1W				
Working voltage	AC 220V±10% 50Hz				
Working conditions	5~40℃ ≤80%RH				
Storage conditions	-5~30℃ ≤80%RH				
Anti burn	Fuse: F5A/250V				
Weight	4.5kg		2kg		
Size	280*165*130mm				
Dissipate heat	Aluminum material+air-cooled				
Voltage stabilization characteristics					
Output voltage	OV~Maximum rated value		OV~Maximum rated value		
Power effect	≤0.01%+3mV		≤0.01%+1mV		
Load effect	≤0.01%+2mV		≤0.01%+5mV		
Ripple noise	≤8mVrms		≤30mVrms		
Steady current characteristics					
Output current	OA~Maximum rated value		OA~Maximum rated value		
Power effect	≤0.1%+3mA		≤0.1%+5mA		
Load effect	≤0.02%+10mA		≤0.1%+5mA		
Ripple noise	≤10mArms		≤10mArms		



3303



3305

MAIN FEATURES

- LED digital display, simple and intuitive display of the voltage and current output by the power supply
- It has a set of fixed outputs and three switchable fixed voltage outputs (5V-3A or 3.3V-3A or 2.5V-3A)
- Two adjustable power supplies can be used in series or parallel, and voltage or current tracking is performed by one main power supply
- Automatic switching between stable voltage and stable current
- Equipped with an output control switch for more flexible control
- Overvoltage, overcurrent, overtemperature, short circuit protection, and polarity reversal protection

Wave Form Features	3303	3305
Output voltage	2×0~30V	2×0~30V
Output current	2×0~3A	2×0~5A
Fixed (switchable)	5V-3A / 3.3V-3A / 2.5V-3A	5V-3A / 3.3V-3A / 2.5V-3A
Input voltage	AC 220V±10%	
Test conditions	10~35℃ ≤75%RH	
Storage conditions	-10~70℃ ≤70%RH	
Weight	9Kg	
Size	330*250*155mm	
Output range and indicators of master and slave paths		
Power effect	CV≤0.01% +3mV CC≤0.2% +3 mA	
Load effect	CV≤0.01% +3mV(I≤3A) CC≤0.2% +3mA(I≤3A)	
	CV≤0.02% +5mV(I>3A) CC≤0.2% +5mA(I>3A)	
ripple noise	CV≤1mVrms(I≤3A,5Hz~1MHz) CC≤3mArms (I≤3A)	
	CV≤2mVrms(I>3A,5Hz~1MHz) CC≤10mArms (I>3A)	
Display accuracy	Voltage and current display accuracy: ± (1% reading+2 words)	
Tracking operation		
Parallel mode	Power effect: CV ≤ 0.01%+3mV Load effect: CV ≤ 0.01%+3mV (I ≤ 3A) CV ≤ 0.02%+5mV (I>3A) Tracking current error of the slave circuit ≤ output of the active circuit × 2%+50mA Power effect: CV ≤ 0.01%+5mV	
Series mode	Load effect: CV ≤ 300mV When the positive and negative power supplies output, the tracking error of the slave circuit voltage is ≤ the output of the active circuit × 0.5%+10mV	
Fixed output power supply		
Rated output voltage	2.5V/3.3V/5V three groups switchable	
Rated output current	3A	
Power effect	≤25mV	
Load effect	≤25mV	
ripple noise	≤2mVrms (5Hz~1MHz)	
protect	Equipped with output limitation and short circuit protection function	

Details :

Measuring Range : 0-1250μm, 0-50mils
 Accuracy : ± (3%+2μm) / ± (3%+0.1mils)
 Resolution : 1 μm / 0.1mils
 Three Calibration Ways: Zero point, Two point, Initialization.
 The system errors can be modified promptly by calibration.
 Measuring Mode : Single Measuring/Consecutive Measuring
 Data Storage: store 99 sets of data in max.,
 the data will be eliminated after power off.
 Digital readout display shows at 180 degrees rotation
 Buzzer Indication Function
 Metric-Inch Switch Function
 Low Battery Indication Function
 Auto Power Off Function
 Battery : 3V
 Product Net Weight : 68g
 Product Size : 100*52*29mm
 Operation Temperature : 0~+50℃ (+32 ~ +120℉)



852A



852E

Thickness Meter

MODEL: VICTOR 852E

Specification:

Measurement Range: 0-1250μm / 0-50mil
 Resolution: 0.1μm / 0.1mil
 Accuracy: ±(2%+2μm) / ±(2%+0.1mil)
 Product Size: 166×68×30mm 6.5×2.5×1 inch
 Product Weight: 180g/ 0.4lb (with batteries)
 Operation Temperature: -10 to +50℃ (+12 to +122℉)
 Note: Only take measurement after the probe of the instrument reaches environment temperature. Please disregard the first several reading if you are not sure whether the probe is stable under current environment temperature

Model: VICTOR 852C+

Product Name: Ultrasonic Thickness Meter

Details:

Measuring Range: 1.5-200mm
 Accuracy: 0.5%H+0.1
 Resolution: 0.1m
 Sound Velocity Range: 500~9000m/s
 Operation Frequency: 5MHz.
 Sensor: Ultrasonic 5MHzΦ10
 Automatically memorize material code and sound velocity .
 Low Battery Indication Function
 Auto Power Off Function
 Battery: 3V(2*1.5V) AAA Battery
 Product Net Weight: 220g
 Product Size: 147*72*35mm



852C+



6800

	6800
Range	0.00mA~1200A
Resolution	0.01mA
Accuracy (23°C±3°C, below 70%RH)	0.00mA~59.9A: ±1.5%±5dgt
	60.00A~199A: ±2%±5dgt
	200.0A~599A: ±3%±5dgt
	600A~1200A: ±4%±5dgt
Power	Zn-Mn dry battery, 6F22, 9V
Size of jaw	Φ68mm
Sampling Rate	about 2 times/s
USB Interface	Data stored in the memory of the meter via USB upload to PC, or on-line monitoring
Storage	99units, all used when display FULL
Peak Hold	Push HOLD without release, the meter will show the peak value during the pushing period
Reading Hold	DH indicating when the reading is hold
Out of Range	OL indicating when the current is out of range
Working Current	5mA
Line Voltage	circuit test below AC1600V
Range Shift	Automatically



7100/7100A

Clamp Leaker

	7100	7100A
Range	AC 0.0mA~3200A	AC 0.0mA~4000A
Resolution	AC 0.1mA	AC 0.1A
Measurement Accuracy (23°C±3°C, below 70%RH, measured wire at the center of the clamp)	AC 0.0mA~499A ±2%±5dgt	
	AC 500A~999A ±3%±5dgt	
	AC 1000A~2999A ±4%±5dgt	
	AC 3000A~4000A ±5%±5dgt	
Power	6V DC(LR6×4 alkaline dry batteries, continuously working for 12 hours)	
Weight of Meter	1.5kg (with batteries)	
Dimension	Length 350mm* width 180mm * thickness 55mm	
Clamp Size	108mm×148mm (can clamp electric cable of 108mm diameter, or 160mm×4mm flat cable and steel earth wires)	
Sample Rate	About 2 times/second	
Frequency	50Hz, 60Hz automatic identification	
Communication Wire	RS232 communication wire, 1.8m	
Data Storage	99 sets, "FULL" symbol indicate the memory is full	
Data Hold	"HOLD" symbol appears	
Overflow	"OL" symbol appears	



690

	690
Power Source	Zinc-manganese dry battery 6F22 9V
Test Mode	Flexible CT: the output signal is the differential of the current to the time. By integrating the output voltage signal, the input current can be truly restored.
Coil Diameter	200mm diameter
Range	AC 0.00A~9999A
Resolution	AC 10mA
Accuracy	±2%+3dgt(The wire is in the center of the flexible coil, 23°C±2°C)
Coil thickness	7.5mm (Very suitable for narrow environments and places with dense wiring)
Measured Current Frequency	50Hz/60Hz (automatic identification)
Data Storage	99units, all used when display FULL
Peak Value Hold	Push HOLD without release, the meter will show the peak value during the pushing period, display
Data Hold	DH indicating the reading is hold
Line Voltage	circuit test below AC1600V



7100B

Clamp Leaker

	7100B
Function	ACA, leakage current, load current on-line test, suitable for electricity leakage patrol inspection of down hole and outdoor multi-conductor thick cable
Power Source	DC 3.7V chargeable lithium battery, USB charging portal, working continuously for 10h
Display Mode	Four digital LCD display, backlight function, suitable for dark place
Tested Line Diameter	Φ168mm Conductor, cable or 168mm×245mm bus bar
Measurement Range	Current: AC 10mA~9999A(50~60Hz automatically)
Resolution	10mA
Current Accuracy	10mA~999A, ±2%±5dgt
	1000A~2999A, ±3%±5dgt
	3000A~9999A, ±4%±5dgt
Size of Insulation Rod	300mm
Instrument Size	Length width thickness 310mm×270mm×52mm
Line Voltage	bare wire test 1000V below, less than 110kV with a safety insulation sheath wire. (operating with an insulation rod)
Automatic Shutdown	About 15mins after startup, the instrument will be automatically shut down to reduce battery consumption
Instrument Mass	Instrument: 496g(include battery); Total mass: 2.3kg (including insulation rod and instrument box)

	7300	7300A
Current Range	AC 0.00mA~1200A Resolution0.01mA	AC 0.0A~2000A Resolution0.01A
Power Range	AC 0.5W~720KW Resolution0.01W	AC 0.0KW~1200KW Resolution0.1KW
Line Voltage	Below AC 600V line measurement	
Frequency Range	25Hz~100Hz Resolution0.1Hz	
Phase Range	0.0°~360.0° Resolution0.1°	
Power Factor Range	0.3~1.0 (capacitive or inductive)	
Electric Energy Range	0.000KWh~72000KWh Resolution0.0001KWh	
Power	6V DC(LR6×4 alkaline dry batteries, continuously working for 12 hours)	
Working Current	50mA with enabled backlight; 25mA with disabled backlight	
Weight	1kg(with batteries and accessories)	
Meter Size	Length 275mm × Width 145mm × Height 40mm	
Clamp Size	80mm×80mm(can clamp electric cable of 80mm diameter, or 96mm×4mm flat cable and steel earth wires)	
Sample Rate	About 2 times/second	
Frequency	50Hz, 60Hz automatic identification	
Communication Wire	RS232 communication. Wire: 1.8m	



7300/7300A

Large Caliber Three Phase Power Tester



8100B

Transformer Core Grounding Current Tester

	8100B
Power Source	DC 9V alkaline dry batteries LR6 1.5V × 6
Clamp Size	80mm×80mm (can clamp electric cable of 80mm diameter, or 96mm×4mm flat cable and steel earth wires)
Range	Current: AC 0.00mA~1000A Frequency: 10Hz~1000Hz
Resolution	AC 0.01mA
Accuracy	±1.5%±3dgt
Display Mode	3.5-inch Color Touch LCD
Operation Method	Include intelligent touch and key control
Meter Size	198mm×100mm×45mm
Current Clamp Size	194mm×145mm×40mm
Weight	Mainframe: 450g(include battery); Current clamp: 780g
Sample Rate	2 times/s
Data Storage	200sets (power down or replace battery will not lose data)
Date	Include date and time function and can setting the date and time
Test number	can set the test point number
Automatic Shutdown	About 5mins after startup, the instrument will be automatically shut down
USB Interface	Data stored in the memory of the meter via USB upload to PC

	3700B
Power	Measured Power ≤ 35.28W; ≤ 4.2A, when the battery is full of power
Range	0.01Ω~300 Ω
Display Rate	0.0001Ω
Measurement Accuracy	0.01Ω~300Ω Δ ≤ 1% · Rx (Rx is the resistance which is under test) 0.01Ω~0.0999Ω Δ ≤ 5% · Rx
Tested Current	0.3Ω gear: ≤ 4.2A 3Ω gear: ≤ 2.1A 30Ω gear: ≤ 210mA 300Ω gear: ≤ 21mA
Power Source	DC 7.4V2.6Ah chargeable lithium battery, the battery is about 8.4V with full power
Test method	Precision four line measurement, two A/D test at the same time
Test interface	C1 current positive, C2 current negative, P1 voltage positive, P2 voltage negative
Data Storage	400sets (power down or replace battery will not lose data)
Alarm setting	range:1Ω~30Ω, 0Ω will not initiate the alarm
Charging Indication	The indicator light on the charger is red when charging; it becomes green when fully charged
Overflow	the current is out of range: "OL" indicating
Data Hold	Each time automatically hold and display the measured result after finish testing
Tested Line	Four: 2 each red and black lines, 5m long each line



3700B

Equipotential Tester



1600

Wireless H/L Voltage Phase Detector

	1600
Power Source	Meter: DC9V 6 nodes AA alkaline battery LR6; Detector: Zinc manganese dry battery 6F22, 9V
Phase Checking Method	Contact phase checking: When the bare wire voltage is less than 35kV, or less than 220kV with a safety insulation sheath wire, adopt contact phase checking. (operating with an insulation rod) Noncontact phase checking: When the bare wire voltage is more than 35kV, adopt noncontact phase checking. The probe gradually approach wire phase checking
Transmission Method	wireless transmission, about 30 meters distance of straight transmission
Phase Judge	In phase: 25°~25°; out of phase: 95°~145° and 215° ~ 265°
Phase Checking Voltage	200V~220kV
Phase Range	0.0°~360.0°; accurate: ≤ ±12°; Resolution: 0.1°
Frequency Range	45.0Hz~65.0Hz; accurate: ≤ ±2Hz; Resolution: 0.1Hz
Emission Frequency	433MHz, 315MHz
LCD	3.5-inch color LCD; display domain: 71mm × 51mm
Phase Indicator	Phasor diagram and digital display meanwhile
Working Indicator	sound-light indication function, red double flashing lights and buzz like "beep - beep - beep"
Display Rate	2 times/s
Data Storage	9999sets (power down or replace battery will not lose data)
Automatic Shutdown	About 5mins after startup, the instrument will be automatically shut down



1601

Wireless H/L Voltage Phase Detector

	1601
Power Source	DC 3.7V chargeable lithium battery, USB charging portal, working continuously for 10h
Transmission Method	315MHz and 433MHz wireless transmission
Phase Distance	About 1600m
Display Mode	3.5-inch true color LCD display
Measurement Range	Phase checking voltage level: AC 10V~550kV; Phase: 0°~360.0°; Frequency: 45Hz~75Hz
Resolution	0.1°; 0.1Hz
Accuracy	Phase: ≤10°; Frequency: ≤±2Hz(23°C±5°C, 80%RH below)
Phase Judge	In phase: 30°~30°; out of phase: 90°~150° and 210°~270°
Voice Function	Voice such as in phase, out of phase, X signal normal, Y signal normal, etc.
Size of Insulation Rod	About 5m long after extended; about 1m long after drawn back (5 nodes)
Electric Indicator	Detector sends out buzz like "beep-beep-beep"
Phase Checking Method	Contact phase checking: When the bare wire voltage is less than 35kV, or less than 110kV with a safety insulation sheath wire, adopt contact phase checking. (operating with an insulation rod) Noncontact phase checking: When the bare wire voltage is more than 35kV, or more than 110kV with a safety insulation sheath wire, adopt noncontact phase checking. (operating with an insulation rod)
Automatic Shutdown	About 15mins after startup, the instrument will be automatically shut down to reduce battery consumption
Rated Current	Detector: 35mA max; Receiver: 300mA max
Instrument Mass	Detector: 205g (including battery) Receiver: 395g (including battery) Insulation rod: 1.45kg Total mass: 9.8kg (including box)
Working Humidity And Temperature	-10°C~40°C; below 80%Rh
Storage Humidity And Temperature	-10°C~60°C; below 70%Rh

	YITENSEN 1800
Function	frequency, phase, phase sequence and electricity verification tested
Power Source	DC 3.7V chargeable lithium battery, USB charging portal, working continuously for 10h
Transmission Method	315MHz 433MHz wireless transmission
Phase Distance	The distance is not limit under satellite timing phase mode, which is above 500km, and it is about 1600m at the normal mode
Display Mode	3.5-inch true color LCD display
Measurement Range	Phase: 0°~360.0°; Phase checking voltage level: AC 10V~550kV; Frequency: 45Hz~75Hz
Resolution	1°; 0.1Hz
Accuracy	Satellite timing phase: ≤±5°; common phase checking: ≤±10°; frequency: ≤±2Hz
Phase Judge	The real time angle phase difference displayed by the XY two receiver is 0°~30° means in-phase. The real time angle phase difference displayed by the XY two receiver is 90°~120° or 210°~270° means out-phase.
Voice Function	Voice such as in phase, out of phase, X signal normal, Y signal normal, etc.
Size of Insulation Rod	About 5m long after extended; about 1m long after drawn back (5 nodes)
Time Service Accuracy	Less than 30ns
Instrument Mass	Detector: 205g; Receiver: 395g; Insulation rod: 1.45kg; Total mass: 9.8kg
Rated Current	Detector: 35mA max; Receiver: 300mA max



1800

Satellite Time Service Phase Detector



1700

Wireless H/L Voltage Phase Detector

	1700
Function	Voice phase checking of wireless high-low voltage, current, leakage current, frequency, phase, phase sequence and electricity verification tested; electricity leakage patrol of multi-conductor cable
Power Supply	DC 3.7V chargeable lithium battery, USB charging portal, working continuously for 10h
Transmission Method	315MHz 433MHz wireless transmission
Phase Distance	0~1600m
Display Mode	3.5-inch true color LCD display
Tested Line Diameter	Φ168mm Conductor, or 168mm*245mm bus bar
Range	Phase: 0°~360.0°; Phase checking voltage level: AC 10V~550kV; Frequency: 45Hz~75Hz; current: 0~20000A
Resolution	0.1°; 0.1Hz; 10mA
Accuracy	phase: ≤±10°; frequency: ≤±2Hz; current: 0~6000A: ±3%±5dgt; 6000A~2000A: ±4%±5dgt
Phase Judge	In phase: 30°~30°; out of phase: 90°~150° and 210°~270°
Voice Function	Voice such as in phase, out of phase, X signal normal, Y signal normal, etc.
Size of Insulation Rod	About 5m long after extended; about 1m long after drawn back (5 nodes)
Phase Checking Method	Contact phase checking: When the bare wire voltage is less than 35kV, or less than 110kV with a safety insulation sheath wire, adopt contact phase checking. (operating with an insulation rod) Noncontact phase checking: When the bare wire voltage is more than 35kV, or more than 110kV with a safety insulation sheath wire, adopt noncontact phase checking. (operating with an insulation rod)
Automatic Shutdown	About 15mins after startup, the instrument will be automatically shut down to reduce battery consumption
Rated Current	Detector: 35mA max; Receiver: 300mA max
Instrument Mass	Detector: 496g (including battery) Receiver: 395g (including battery) Insulation rod: 1.45kg Total mass: 13.5kg (including box)
Working Humidity And Temperature	-10°C~40°C; below 80%Rh
Storage Humidity And Temperature	-10°C~60°C; below 70%Rh

	9000C/D
Function	High-low voltage AC leakage current, current and frequency test; iron core grounding current and transformer load test; electricity leakage patrol inspection of down hole and outdoor multi-conductor thick cable
Power Source	DC 3.7V chargeable lithium battery, USB charging portal, working continuously for 10h
Transmission Method	433MHz wireless transmission
Display Mode	3.5-inch True Color LCD display; press upper and lower arrow button to adjust the backlight luminance
Tested Line Diameter	Φ168mm Conductor or cable, or 168mm*245mm bus bar
Measurement Range	Current: AC 0~6000A (50/60Hz automatic); Frequency: 45Hz~75Hz
Resolution	10mA; 0.1Hz
Current Precision	0.00A~99.9A: ±2%±5dgt; 100A~6000A: ±3%±5dgt; 6.00kA~20.0kA: ±4%±5dgt
Frequency Precision	±1Hz
Size of Insulation Rod	About 5m long after extended; about 1m long after drawn back (5 nodes)
Line Voltage	Test bare conductor under 35kV, cable with safe insulation sheath under 110kV (operate with insulation rod)
Instrument Quality	Hook instrument: 496g (including battery) Receiver: 395g (including battery) Insulation rod: 1.45kg Total weight: 11.5kg (including instrument box)



9000C/D

Hook Ampere Meter



4300

Digital Phase Va Meter

4300	
Function	Three Phase, AC current, AC voltage, AC leakage current, direct test of phase sequence; transformer groups, inductive, capacitive circuit discrimination; indirect test of power factor and power
Clamp size	Acuminate current clamp: 7.5mm×13mm (4300)
Weight	Main Unit about 550g(with battery) ; acuminate current clamp about 170g×3, round current clamp about 185g×3, test line about 250g
Measurement range	AC Voltage: 0.00V~600V AC Current: 0.0mA~20.0A Phase: 0~360°
Power	DC9V alkaline batteries(1.5V AA×6)
Meter size	Length, Width, Height: 196mm×92mm×54mm
Sampling Rate	About 2 times/second
Data storage	99 sets
Display Mode	LCD display, 240dots×160dots
Data Hold	Press HOLD key to keep data, "DH" symbol appears
Automatic Shutdown	Automatic shutdown about 15 minutes later after launching to reduce battery consumption
Backlighting	Suitable for dark place and nightly use
Test Line Length	1.5m
Working Temperature and Humidity	-10℃~40℃; below 80%Rh
Storage Temperature and Humidity	-10℃~60℃; below 70%Rh
Input impedance	Testing voltage the input impedance is 2MΩ



4000M

Phase Volt Ampere Meter

4000M	
Function	On-line test the phase, voltage, current, leakage current, frequency, phase sequence etc. in the 380/220V electric system
Power apply	6LR61, 9V DC, working continuously for 20h
Clamp size	Φ 7.5mm×13mm
Measurement range	Phase: 0~360°, voltage: 0~600V, current: AC 0.00mA~30.0A; frequency: 0~400Hz
Resolution	Phase 1°; voltage: 0.01V; current: 0.01mA; frequency: 0.1Hz
Accuracy	Phase: ±3°; voltage: ±2%±3dgt; current: ±2%±3dgt; frequency: ±1Hz
Data storage	99 sets
Meter size	Length width thickness 220mm×45mm×30mm
Line voltage	to test below 600V
Function conversion	To convert by MODE key, will display phase, voltage, current, frequency; Booting default is phase
Data hold	Hold the data by HOLD key, cancel holding by HOLD key again
Data check	to enter the data check function by READ key, look over the storage data by up or down arrow key
Automatic shutdown	After startup about 15mins, the instrument will be automatically shut down to reduce battery consumption
Meter mass	Meter: 220g (include battery); total mass: 400g
Working current	Max × 100mA



4100

Phase Volt Ampere Meter

4100	
Function	Phase, ACA, ACV, AC leakage current, the judgement of the connection group, inductive and capacitive circuit of the transformer; Indirect measurable power and power factor
Power supply	DC 9V alkaline dry batteries
Power dissipation	Turn on the backlight (MAX. 35mA), the battery can continue work for 40h Turn off the backlight, the power consumption is about 5mA, battery can continue work for 300h
Display mode	LCD display, backlight function, suitable for dark place
Clamp size	Φ7.5mm ×13mm
Range	Phase: 0~360°; voltage: 0~20V/200V/600V; current: 0~200mA/2A/20A
Resolution	Phase: 1°; voltage: 0.01V; current: 0.1mA
Accuracy	Phase: 1° (phase error is not more than ±3° under the working condition); voltage: ±(1.2%rdg+2dgt); current: ±(1.0%rdg+2dgt)
Amplitude of tested signal	When measuring U1-U2 phase: 30V-600V When measuring I1-I2 phase: 10mA~20.00A When measuring U1-I2 or I1-U2 phase: 10V~600V, 10mA~20.00A
Data hold	Press the HOLD key to keep the data during the measurement; "DH" symbol indicates to reduce the battery consumption, the meter auto power off after startup for 15 minutes
Automatic shutdown	When the battery voltage is less than 7.2V, low voltage symbol comes out, it means you need to change the battery
Voltage test	
Weight	The device is about 550g (include battery), current clamp is about 170g × 2, test line is about 250g
Test line length	1.5m
Line length of current clamp	2m



4500

Phase Volt Ampere Meter

4500	
Function	Meanwhile test the current, voltage, phase, frequency, phase sequence, active power, reactive power, apparent power, power factor in the three phase 80V/220V electric system
Power supply	DC 7.4V chargeable lithium battery, USB charging portal, working continuously for 10h
Clamp size	Φ7.5mm×13mm
Range	Phase: 0.0°~360° ACV: 0.00V~600V; ACA: 0.0mA~20A; frequency: 45.00Hz~65.00Hz; current vector sum: 0mA~60.0A Active power: 0.00W~12KW; reactive power: 0.00W~12kVAR; apparent power: 0.0W~12kVA; power factor: -1~+1
Resolution	Phase: 0.1° voltage: AC 0.01V; current: AC 0.1mA; frequency: 0.01Hz; current vector sum: 1mA Active power: 0.1W; reactive power: 0.1VAR; apparent power: 0.1VA; power factor: 0.001
Accuracy	Phase: ±1° (note: phase error should be ±3° between 10mA~20A under working condition) voltage: ±(5% range); current: ±(5% range) Active power: ±(1.0% range); reactive power: ±(1.0% range); apparent power: ±(1.0% range); power factor: ±0.03
Phase sequence	Positive phase: Cursor U1, U2, U3 or I1, I2, I3 twinkles in order from left to right
Data hold	Hold the data by HOLD key; "HD" symbol appears
Automatic shutdown	After startup about 15mins, the instrument will be automatically shut down to reduce battery consumption
Backlight function	yes, suitable for using at night and dark place
Meter mass	The meter: 550g(include battery); current clamp: 185g×3; test line: 250g
Working temperature and Humidity	-10℃~40℃; below 80%Rh
Storage Temperature and Humidity	-10℃~60℃; below 70%Rh
Input impedance	Input impedance of test voltage: 1MΩ



OPTIONAL CURRENT CLAMP



5000

Basic function

- ★ Waveform real-time display (4 channels voltage/4 channels current).
- ★ True RMS values of voltages and currents.
- ★ The DC components of voltages.
- ★ Peak current and voltage values.
- ★ Minimum and maximum half-cycle RMS current and voltage values.
- ★ Phasor diagram display.
- ★ Measurement of each harmonic up to order 50.
- ★ Bar charts show harmonic ratios of current and voltage of each phase.
- ★ Total harmonic distortion (THD).
- ★ Active, reactive, apparent power, by phase and cumulative.
- ★ Active, reactive, apparent energy, by phase and cumulative.
- ★ Transformer K factor.
- ★ Power factors (PF) and displacement factors (DPF or COSΦ).
- ★ Short-term voltage flicker (PST).
- ★ Three phase unbalance(current and voltage).

Basic Function	5000	Base condition	Working condition
Environment temperature	All parameters	(23±2)°C	-10°C~ 40°C
Relative humidity	All parameters	40%~ 60%	<80%
Phase-to-neutral voltage	All parameters	(100±1%)V	1.0V~ 1000V
Phase-to-phase voltage	True RMS phase-to-phase voltage	(200±1%)V	1.0V~ 2000V
Current	True RMS current	(5±1%)A	10mA~ 1000A
Network frequency	All parameters	50Hz±0.1Hz	40Hz~ 70Hz
Phase shift	Active power and active energy	Cosφ=1	Cosφ: 0.2~ 1.0
	Reactive power and reactive energy	Sinφ=1	Sinφ: 0.2~ 1.0
Harmonic	All parameters	<0.1%	0.0%~ 100%
Voltage unbalance	All parameters	<10%	0.0%~ 100%
Working voltage of device	All parameters	DC9.8V±0.1V	DC9.5V~ 10.5V
External electric field, magnetic field	All parameters	Should be avoided	
Test position	Measured related parameters of current	Tested wire at the center of clamp.	

General specification	5000
Power supply	Rechargeable lithium-ion battery packs 9.6V, backup charger.
Battery indicator	Battery symbol shows dump energy. When the voltage is too low, automatic shutdown after the 1 minute.
Power consumption	Current consumption of normal test 490 mA, continuous working for 8 hours.
Display mode	LCD color screen, 640dots×480dots, 5.6 inches, display domain: 116mm×88mm.
Size of clamp	008B small sharp current clamp: 7.5mm×13mm; 040Bcircle current clamp: 35mm×40mm; 068Bcircle current clamp: 68mm×68mm. 300F Flexible Coil Current Sensor (with Integrator) : Φ300mm
Instrument dimensions	L×W×H: 240mm×170mm×68 mm.
Number of channels	4U/4I.
Phase-to phase voltage	1.0V~2000V.
Phase-to-neutral voltage	1.0V~1000V.
Current	008B current clamp: 10mA~10.0A; 040B current clamp: 0.10A~100A; 068B current clamp: 1.0A~1000A; 300F Flexible Coil Current Sensor (with Integrator) : 10A ~ 6000A
Frequency	40Hz~70Hz.
Parameters of electricity	W, VA, Var, PF, DPF, cosφ, tanφ.
Energy parameters	Wh, Varh, Vah.
Harmonic	Order 0~50.
Total harmonic distortion	Order 0~50, each phase.
Expert mode	Yes.
Number of Transient records	150 sets.
Voltage flicker	Yes.
Starting current mode	Yes, 100 seconds.
3 phases unbalance	Yes.
Record	300 days(simultaneous recording 20 parameters, record one point every 5 seconds).
Min/Max recorded value	Measurement of maximum and minimum values over a period of time.
Alarm	40 different types of parameter selections, 12,800 sets alarm logs.
Peak	Yes.
Phasor diagram display	Automatically.
Capacity of snapshots	60.
Menu language	English/Chinese.
Communication	USB.
Automatic switching off	When an alarm campaign is initiated or a search for transients, an inrush current capture, or a trend recording is pending or in progress,the device is not automatic switching off. In other test mode, 15 minutes without keystrokes, automatic shutdown after prompt 1 minute.
Backlight function	Yes, suitable for use at night and dark place.
Weight	Host: 1.6kg (with battery). 008B small sharp current clamp: 170g×4; 040Bcircle current clamp: 190g×4; 068Bcircle current clamp: 510g×4; 300F Flexible Coil Current Sensor (with Integrator) : 330g×4; Test wires and power adapter: 900g;
	Total weight: about 9.2kg (with packaging).
Length of voltage test wire	3m.
Length of current sensor wire	2m.
Input impedance	Input impedance of test voltage:1MΩ.
Withstand voltage	Withstand 3700V/50Hz sinusoidal AC voltage for 1 minute between instrument wiring and shell.
Insulation	Between instrument wiring and shell ≥10MΩ.



5000B

Current sensor character

Type of current senso	True RMS current	Max error of true RMS current	Max error of phase angle
FR008 current clamp	10mA~ 99mA 100mA~ 10.0A	$\pm(1\%+3\text{dgt})$ $\pm(1\%+3\text{dgt})$	$\pm(1.5^\circ)$, Arms $\geq 20\text{mA}$ $\pm(1^\circ)$
FR020 current clamp	0.10A~ 0.99A 1.00A~ 100A	$\pm(1\%+3\text{dgt})$ $\pm(1\%+3\text{dgt})$	$\pm(1.5^\circ)$ $\pm(1^\circ)$
FR050 current clamp	1.0A~ 9.9A 10.0A~ 1000A	$\pm(2\%+3\text{dgt})$ $\pm(2\%+3\text{dgt})$	$\pm(3^\circ)$ $\pm(2^\circ)$
FR300R Flexible Coil Current Sensor (with Integrator)	10A ~ 199A 200A~6000A	$\pm(1\% + 3\text{dgt})$ $\pm(1\% + 3\text{dgt})$	$\pm(3^\circ)$ $\pm(2^\circ)$



Small cusp
8mmx 15mm
168gx4



Round mouth
20mmx 20mm
252gx4



Round mouth
50mmx 50mm
463gx4



Flexible coil (with integrator)
Φ300mm
280gx4

Power Quality Analyser

Basic Function	5000B
Power supply	Rechargeable lithium-ion battery packs 9.6V, backup charger.
Battery indicator	Battery symbol shows dump energy. When the voltage is too low, automatic shutdown after the 1 minute.
Power consumption	Current consumption of normal test 490 mA, continuous working for 10 hours.
Display mode	LCD color screen, 640dotsx480dots, 5.6 inches, display domain: 116mmx88mm.
Size of clamp	FR008 small sharp current clamp: 8mmx15mm; FR020circle current clamp: 20mmx20mm; FR050 circle current clamp: 50mmx50mm. FR300R Flexible Coil Current Sensor (with Integrator) : Φ300mm
Instrument dimensions	LxWxH: 277.2mm x 227.5mm x 153mm.
Number of channels	4U/4I.
Phase-to phase voltage	1.0V~2000V.
Phase-to-neutral voltage	1.0V~1000V.
Current	FR008 current clamp: 10mA~10.0A; FR020 current clamp: 0.10A~100A; FR050 current clamp: 1.0A~1000A; FR300R Flexible Coil Current Sensor (with Integrator) : 10A ~ 6000A
Frequency	40Hz~70Hz.
Parameters of electricity	W, VA, Var, PF, DPF, cosφ, tanφ.
Energy parameters	Wh, Varh, Vah.
Harmonic	Order 0~50.
Total harmonic distortion	Order 0~50, each phase.
Expert mode	Yes.
Number of Transient records	150 sets.
Voltage flicker	Yes.
Starting current mode	Yes, 100 seconds.
3 phases unbalance	Yes.
Record	300 days(simultaneous recording 20 parameters, record one point every 5 seconds).
Min/Max recorded value	Measurement of maximum and minimum values over a period of time.
Alarm	40 different types of parameter selections, 12,800 sets alarm logs.
Peak	Yes.

Phasor diagram display	Automatically.
Capacity of snapshots	60.
Menu language	English/Chinese.
Communication	USB.
Automatic switching off	When an alarm campaign is initiated or a search for transients, an inrush current capture, or a trend recording is pending or in progress, the device is not automatic switching off. In other test mode, 15 minutes without keystrokes, automatic shutdown after prompt 1 minute.
Backlight function	Yes, suitable for use at night and dark place.
Weight	Host: 1.6kg (with battery). FR008 small sharp current clamp: 168gx4; FR020 circle current clamp: 252gx4; FR050 circle current clamp: 463gx4; FR300R Flexible Coil Current Sensor (with Integrator) : 280gx4; Test wires and power adapter: 800g; Total weight: about 10.8kg (with packaging).
Length of voltage test wire	3m.
Length of current sensor wire	2m.
Working temperature and humidity	-10°C~40°C; below 80%Rh.
Storage temperature and humidity	-10°C~60°C; below 70%Rh.
Input impedance	Input impedance of test voltage:1MΩ.
Withstand voltage	Withstand 3700V/50Hz sinusoidal AC voltage for 1 minute between instrument wiring and shell.
Insulation	Between instrument wiring and shell $\geq 10\text{M}\Omega$.
Structure	Double insulation, with insulation vibration-proof sheath.
Safety rules	IEC 61010 1000V Cat III / 600V CAT IV, IEC61010-031, IEC61326, Pollution degree: 2.

Measurement	Range	Display resolution	The maximum error in the range of the reference
Frequency	40Hz~ 70Hz	0.01Hz	$\pm(0.03)\text{Hz}$
True RMS phase-to-neutral voltage	1.0V~ 1000V	Min resolution 0.1V	$\pm(0.5\%+5\text{dgt})$
True RMS phase-to phase voltage	1.0V~ 2000V	Min resolution 0.1V	$\pm(0.5\%+5\text{dgt})$
DC voltage	1.0V~ 1000V	Min resolution 0.1V	$\pm(1.0\%+5\text{dgt})$
True RMS current	10mA~ 6000A	Min resolution 1mA	$\pm(0.5\%+5\text{dgt})$
Peak of phase-to-neutral voltage	1.0V~ 1414V	Min resolution 0.1V	$\pm(1.0\%+5\text{dgt})$
Peak of phase-to-phase voltage	1.0V~ 2828V	Min resolution 0.1V	$\pm(1.0\%+5\text{dgt})$
Current peak	10mA~ 8484A	Min resolution 1mA	$\pm(1.0\%+5\text{dgt})$
Peak factor	1.00~ 3.99 4.00~ 9.99	0.01 0.01	$\pm(1\%+2\text{dgt})$ $\pm(5\%+2\text{dgt})$
Active power	0.000W~ 9999.9kW	Min resolution 0.001W	$\pm(1\%+3\text{dgt})\text{Cos}\varphi\geq 0.8$ $\pm(1.5\%+10\text{dgt})0.2\leq\text{Cos}\varphi<0.8$
Reactive power, inductive or capacitive	0.000VAR~ 9999.9kVAR	Min resolution 0.001VAR	$\pm(1\%+3\text{dgt})\text{Sin}\varphi\geq 0.5$ $\pm(1.5\%+10\text{dgt})0.2\leq\text{Sin}\varphi<0.5$
Apparent power	0.000VA~ 9999.9kVA	Min resolution 0.001VA	$\pm(1\%+3\text{dgt})$
Power factor	-1.000~ 1.000	0.001	$\pm(1.5\%+3\text{dgt})\text{Cos}\varphi\geq 0.5$ $\pm(1.5\%+10\text{dgt})0.2\leq\text{Cos}\varphi<0.5$
Active energy	0.000Wh~ 9999.9MWh	Min resolution 0.001Wh	$\pm(1\%+3\text{dgt})\text{Cos}\varphi\geq 0.8$ $\pm(1.5\%+10\text{dgt})0.2\leq\text{Cos}\varphi<0.8$
Reactive energy, inductive or capacitive	0.000VARh~ 9999.9MVARh	Min resolution 0.001VARh	$\pm(1\%+3\text{dgt})\text{Sin}\varphi\geq 0.5$ $\pm(1.5\%+10\text{dgt})0.2\leq\text{Sin}\varphi<0.5$
Papparent energy	0.000VAh~ 9999.9MVAh	Min resolution 0.001VAh	$\pm(1\%+3\text{dgt})$
Phase angle	-179°~ 180°	1°	$\pm(2^\circ)$
Tanφ(VA<50VA)	-32.76~ 32.76	Min resolution 0.001	$\varphi\pm(1^\circ)$
Phase shift of power factor (DPF)	-1.000~ 1.000	0.001	$\varphi\pm(1^\circ)$
Harmonic ratio (order 1 to 50) (Vrms>50V)	0.0%~ 99.9%	0.1%	$\pm(1\%+5\text{dgt})$
Harmonic angle (Vrms>50V)	-179°~ 180°	1°	$\pm(3^\circ)$ harmonics 1 to 25 $\pm(10^\circ)$ harmonics 26 to 50
Total harmonic ratio (THD or THD-F)≤50	0.0%~ 99.9%	0.1%	$\pm(1\%+5\text{dgt})$
Distortion factor (DF or THD-R)≤50	0.0%~ 99.9%	0.1%	$\pm(1\%+10\text{dgt})$
Transformer K factor	1.00~ 99.99	0.01	$\pm(5\%)$
3 phases unbalance	0.0%~ 100%	0.1%	$\pm(1\%)$



528A/538A

Water Pipe Leak Detector

Water Leak Detector is a special instrument for searching and confirming the location of water pipe leak. It can also be used for other pressure pipe system. When the liquid in pipe overflows under pressure, noise can propagate along the pipe or spread to the ground through buried media, our instrument can confirm the location of leaks along the pipeline or above the ground surface.

Model	528A	538A
Frequency analysis bandwidth	100Hz~2000Hz	100Hz~3000Hz
Frequency division	a: 100 Hz b: 200 Hz c: 400 Hz	a: 100 Hz b: 200 Hz c: 400 Hz
(Center frequency)	d: 800 Hz e: 1K Hz f: 1.5K Hz	d: 800 Hz e: 1K Hz f: 1.5K Hz
	g: 2K Hz	g: 3K Hz
Max. detection depth	2m	3m
All-pass	It can pick up a wide range of sound in the surrounding environment, and it is recommended to use in a relatively quiet environment.	
Bandpass 1	The frequency range is adjustable, can effectively improve the accuracy and efficiency of use. It is recommended to use in a loud noise environment.	
Bandpass 2	Only the center frequency is adjustable, it is recommended to use in a loud noise environment.	
Real-time mode	Waveform display	
Frequency domain mode	Bar graph display.	
Gain mode	Adjustable signal magnification	
Set up	Time and date can be set as required.	
Volume adjustment	The volume can be adjusted by the keys "+" and "-"	
Vibration Pickup Assembly A	Triangle sensor, suitable for water leakage detection in most indoor and outdoor environments such as the ground	
Vibration Pickup Assembly B	Small cylindrical sensor, suitable for leak detection in small indoor spaces such as walls and under cabinets	
Battery time	Power supply working time ≥ 35 hours after the battery is fully charged	
Operation temperature	-10℃~+50℃	
Storage temperature	-10℃~+70℃	
Power	4800mAh rechargeable lithium battery	
Screen	7 inch color LCD screen.	
Size	(L×W×D) : 270×169×68mm.	
Weight	Host 0.77kg (including battery, excluding accessories)	



518

MODEL: 518

Specification

Maximum scanning depth
Ferrous metal: 110mm
Non-ferrous metals: 110mm
Copper conductors (Live): 50mm
Wood: 25mm
Working temperature: -10℃~+50℃
Storage temperature: -20℃~+70℃
Humidity: ≤75% Altitude: ≤2000m
Battery: 3*1.5V AAA
Dimensions: 185*85*33mm
Weight: 180g

Mode 5001

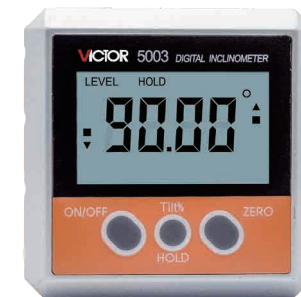
Technical Parameters

- 1.Measuring range: 4°90°
- 2.Resolution: 0.05°
- 3.Accuracy: ±0.2°
- 4.Repeatability: 0.1°
- 5.Battery: AAA×2 battery
- 6.Working temperature: 0℃~40℃
7. Convenient to be attached to the object Measuring workpiece
- 8.Absolute zero measurement based on the level surface
- 9.Dimension: 57*57*30.5mm; N.Weight: 200g

Mode 5003

Technical Parameters

- 1.Measuring range: 4°90°
- 2.Resolution: 0.05°
- 3.Accuracy: ±0.2°
- 4.Repeatability: 0.1°
- 5.Battery: AAA×2 battery
- 6.Working temperature: 0℃~40℃
7. Convenient to be attached to the object Measuring workpiece
- 8.Absolute zero measurement based on the level surface
- 9.Dimension: 61*59*31mm; N.Weight: 200g



5001/5003

Digital Inclinator

DIGITAL PROTRACTOR

Accuracy 0 and 90°≤0. 10°
Other degree ≤0. 15°
Resolution 0. 05°
Range 4° 90° (0~ 360°)
Repeatability ≤0. 10°
Battery 3V (2 pieces AAA battery)
Working current ≤8mA
Working temperature 0~ 40 °C
Relative humidity ≤80%
Automatic readout flipping right side up for the convenient reading when the protractor is upside down.



5005/5006

Digital Protractor

Model	5150	5200	5300
Measurement range	150mm/6"	200mm/8"	300mm/12"
Accuracy	0.01mm/0.0005"	0.01mm/0.0005"	0.01mm/0.0005"
L	235mm	287mm	390mm
A	40mm	50mm	60mm
B	21mm	24mm	27mm
C	16mm	16mm	16mm
D	3.5mm	3.5mm	4.0mm
Repeatability	0.01mm/0.0005"		
Max. measurement speed	3 m/s		
Operating temperature	0°C~40°C		
Power	SR44(silver oxide cell) 1.5V 1 battery		
Average battery life	The warranty is above 1 year under normal use		



5150/5200/5300

Digital Caliper

Measurement range:0-150mm
Resolution (mm): 0.01
Measurement speed: ≤1.5m/s
Power Supply: LR44 1.5V Battery
Operating humidity :<80%
Operating temperature :0~+40 C
Storage temperature :-10~+60 C



5150S

MODEL: YITENSEN 10N/50N/100N/200N/300N/500N
Main technical parameters

The max. Load value	10N	50N	100N	200N	300N	500N
	1kg	5kg	10kg	20kg	30kg	50kg
	2.2Lb	11Lb	22Lb	45Lb	65Lb	110Lb
Load Value	0.01N	0.1N				
	0.001KG	0.01KG				
	0.001Lb	0.01Lb				
The sensor	Sensor inside					
Precision	±0.5%					
Power	3.7V lithium battery					
Charging time	4~6 hours					
Continuous usage time of battery	About 15 hours					
Battery life	≥ 300 times					
Charger	Input: AC220V 50Hz			Output: DC 5V		
Working temperature	1000mA 5℃ ~35℃					
Transportation temperature	-10℃ ~60℃					
Relative humidity	15%~80%RH					
Work environment	No focus ,Non-corrosive in surroundings					



10N/ 50N/100N/200N/300N/ 500N

DIGITAL FORCE GAUGE



8586B

Basic Function	8586B
Power consumption	750w (MAX)
Input voltage	AC (100V/110V/120V/220V/230V /240V)
	50/60Hz (optional)
Display mode	LED screen display
Heating & soldering station	
Power consumption	700w (MAX)
Temperature range	100~500 C & (212°F-932°F)
Air pump type	Fan type
Noise	<52d B(A)
Air flow	120L/min (MAX)
Electrical soldering station	
Power	70w (MAX)
Temperature range	200~480°C
Temperature stability	±2 C (still air and no load)
Temperature accuracy	±15 C
Impedance of welding tip to ground	<2Ω
Voltage of welding tip to ground	<2mV
Heating core	Four-core stainless steel heating core
Working voltage of heating core	24DC
Overall dimensions of unit	167 (L)*100(W)*131(H) MM
Weight	1.86KG
USB port	5V and 2A (max)

No.	Type of impact device	hardness value of standard Leeb hardness block	Error of displayed value	Repeatability of displayed value
1	D	760±30HLD 530±40HLD	±6 HLD ±10 HLD	6 HLD 10 HLD
2	DC	760±30HLDC 530±40HLDC	±6 HLDC ±10 HLDC	6 HLD 10 HLD
3	DL	878±30HLDL 736±40HLDL	±12 HLDL	12 HLDL
4	D+15	766±30HLD+15 544±40HLD+15	±12 HLD+15	12 HLD+15
5	G	590±40HLG 500±40HLG	±12 HLG	12 HLG
6	E	725±30HLE 508±40HLE	±12 HLE	12 HLE
7	C	822±30HLC 590±40HLC	±12 HLC	12 HLC



853A

Leeb Hardness Tester

Model	NG-030	NG-060	NG-135	NG-200	NG-340
Min. Resolution	0.01			0.1	
Max. Operation Range (N.m)	30N.m/22.12ft.lb/265.5 in.lb/305.91kgf.cm	60N.m/44.25ft.lb/531 in.lb/305.91kgf.cm	135N.m/99.57ft.lb/119 5in.lb/1376.61kgf.cm	200N.m/147.5ft.lb/177 0in.lb/2039.43kgf.cm	340N.m/250ft.lb/300 9in.lb/3467.03kgf.cm
Square Drive inches	3/8			1/2	
Measured Torque Range (N.m)	1.5~30	2~60	6.75~135	10~200	17~340
Length(mm)	420		535		655
Accuracy	Clockwise: ±2% counterclockwise ±2.5%				
Data storage capacity	100				
Operation mode	Peak hold mode (P) / Real-time mode (T)				
Unit	N.m, in.lb, ft.lb, kgf.cm				
Ratchet head type	Double-side ratchet head				
Number of ratchet gear	36				
Button	5				
Battery	AA battery × 2 1.5V (No. 5 battery)				
Operation temperature	-10℃~60℃				
Storage temperature	-20℃~70℃				
Humidity	No condensation to 90%				
Drop test height	1 meter				
Vibration test condition	10G				
Life time test	10000 times				



NG-30/NG-60/NG-135/NG-200/NG-340

Digital torque wrench



822M

Mini Gas Detector

This meter is a combustible gas leakage detector, which is used to detect the leakage of combustible gas quickly and reliably.

Technical data

Basic Function	822M
Sensor	Gas-sensitive semi-conductor
Reaction Range	50~100PPM(methane)
Reactions Sensitivity	Approx.<50ppm(methane)
Warm-Up Time	Approx.30 sec
Reactions time	<=500PPM: Approx.5sec >500PPM: Approx.2sec
Alarm mode	Visible and audible
Operating conditions	0 to 50°C / 20 to 80%RH
Storage conditions	-10 to 60°C / 20...80% RH
Batteries	2x1.5V AAA Alkaline battery

Technical data

Function	822A
Gas detection	
Product type	Digital display concentration
Sensor structure	Contact combustion type
Display	LCD
Measuring range	0-100%LEL
Measurement error	±5%
Resolution	1%LEL
Sensitivity	Not adjustable
Response time	About 10 seconds
Sampling method	Diffuse type
Alarm method	Sound/light
Concentration alarm value	Adjustable alarm value
Max.Min value	✓
Backlight function	✓
Calibration function	✓
Timer shutdown function	✓
Data retention	✓
Low battery indicator	✓
Continuous working time	About 6-8 hours
Ambient temperature	0-50°C
Battery model	3*1.2V Ni-MH battery
Display size	49*38.5mm
Weight	111.9g (without battery)
Dimensions	67.98*28.47*119.98mm
Package size	695*458*302mm



822A



822C

822D

Technical data

Basic Function	822C	822D
The gas can be detected (Partial list)	Acetone, acetylene, alcohol, ammonia, benzene, butane, ethanol, ethylene oxide, gasoline, hexane, hydrogen, methane, naphtha, natural gas, paint thinner, propane, solvents, etc.	
Sensitivity	(Methane) about 50ppm	
Buzzer	Analog bar display and audio alarm	
Auto-zero	Automatically reset to zero during the preheating process	
Operating conditions	0°C~50°C 20~80%RH	
Battery	3x1.5 AAA alkaline batteries	
Display range		%LEL: 0~20.00% PPM: 0~9999PPM
Precision		+10%F.S.(Methane)
Product Weight	260g (including battery)	
Product Size	155*60*30mm The goose neck tube is about 432mm	
Carton Size	48x47x30cm	
Standard Packing/Carton	40pcs/Carton	
G.W	17kg	



829A



820D

Compound Gas Monitor range

Compound Gas Monitor adopts high-quality gas sensors, which displays safety and reliability with accurate measurement and stable performance. It has excellent sensitivity and repeatability, easy to use and maintain, and meets the requirements by safety monitoring in industrial site for high reliability of the equipment. The shell is made of high-strength engineering plastics and compound non-slip rubber, dust and explosion-proof, with high strength and smooth handfeel. Compound Gas Monitor is widely used in petroleum, chemical, environmental protection, metallurgy, refining, gas transmission and distribution, biochemical medicine, agricultural research, etc.

Gas type	829A			820D		
	Unit	Range	Resolution	Range	Low alarm point	High alarm point
Ex	%LEL	0~100	0.1	0~100	25	50
O ₂	%VOL	0~30	0.1	0~30	19.5	23.5
H ₂ S	PPM	0~100	0.1	0~100	15	35
CO	PPM	0~1000	1	0~1000	50	150

Technical data

Model	829A	820D
Accuracy	±5%FS	±5%FS
Response time (90%)	Less than 30 seconds	≤30 seconds
Indication mode	LCD displays real-time data and system state, LED, sound, vibration indication alarm	Real-time data and system status display, lighting, vibration and voice (Chinese and English) prompts
Storage Conditions	Temperature: -10~55°C; Humidity: <85%RH	*
Operation Conditions	Temperature: -20~50°C; Humidity: <95%RH non-condensing	Temperature: -10°C~55°C; Humidity: 10~95%RH condensation
Working voltage	DC 3.7V (Lithium battery capacity 1800mAh)	DC 3.7V (Lithium battery capacity 2000mAh)
Charging time	6~8h	*
Standby time	More than 8h on end (slightly change with working state)	*
Dimensions	153*71*49mm	140*73*32mm
Weight	218.7g With battery	205g



380S

Shenzhen VICTOR 380S 25Hz Circuit Board Thermal Analyzer 3D Thermal Image pcb USB connection DC 5V Test Electric Leakage

Victor 380S is a new generation of PCBA infrared thermal imaging analyzer, which is suitable for thermal simulation of circuit design, rapid maintenance of circuit board and detection of defective electronic materials.

Features The user can quickly locate the current leakage or short circuit on PCBA. With clear images, users can even observe the chipset pins of thermal video.

In 3D mode, users can detect ultra-small current leakage. To detect very small temperature difference between good and defectboards, which is difficult by other instruments. To help thermal design, testing, verification, optimization, componentsselection, and help extend product life cycle. Curve data is convenient for R&D engineers to record thermal experimental data.

Technical data

Basic Function	380S
Infrared resolution	256*192
Refresh rate	25Hz
FOV	56°x42°
Measurement distance	100mm - 150mm
Interface	USB Type C
Input voltage	DC 5V
Measurement range	-15°C~600°C(5°F~+1112°F)
Storage temperature	-20°C~60°C
Working temperature	0°C~50°C
Overall weight	1200g
Product size	150mm x 150mm x 230mm

DM9



7 Inch Digital Microscope

- Product name: DM9
- Video maximum pixel: 1080FHD
- Lens optic size: 1/4"
- Picture resolution: 16M, 12M, 10M, 8M, 5M, 3M, 2MHD, 1.3M
- Video resolution: 1080FHD, 1080P, 720P
- Video format: avi
- Focus mode: manual
- Picture format: JPG
- Magnification times: 1200X
- Illuminant: 8 LED lights (brightness adjustable)
- Focusing range: 10~40mm (can watch distant view)
- PC resolution and image transfer rate: 1280*720/30fps
- White balance: automatic
- Exposure: automatic
- PC operating system: Win7, win8.1, win10, Mac OS x 12 or higher
- Supported language: English, Portuguese, Simplified Chinese, Traditional Chinese, Japanese, French, German, Korean, Russian, Spanish, Arabic, Italian, Dutch
- Lens construction: 2G+HR
- Aperture: F4.5
- Lens angle: 16°
- Interface and Signal Transmission Mode: Micro/USB2.0
- Operating temperature: -20°C ~ +60°C
- Operating humidity: 30%~85%RH
- Working current: 700mA
- Power dissipation: 3.5W



90



90A



90B

VICTOR 90 wrist high-voltage alarm provides a safe, practical and convenient new high-voltage alarm device for live operators. Using non-contact sensing technology, the alarm is accurate, power saving and durable, and the standby time is up to 12 months. The unique automatic trigger detection function of the alarm ensures the safety of live workers.

Technical data

Model	90
Voltage level	1KV/6.6KV/10KV/35KV/66KV/110KV
Features	High pressure alarm
Alarm voltage range	1kv~ 220kv
Alarm distance error	±10cm (23℃+1℃, 80%Rh, under reference conditions)
working frequency	50Hz/60Hz
Electricity test method.	Contactless
Detection mode	auto trigger
Battery Life	Continuous work (sound and light alarm): about 24 hours Standby time: about 12 months
Alarm method.	Indicator light: 8000XL visible LED light under visible light Buzzer: 60dB (60CM apart)
Protection class	IP54
Insulation test	AC3700V/rms (between exposed metal and plastic case)
Working temperature and humidity	-10°C~40°C; below 80%rh
Storage temperature and humidity	-10°C~60°C; below 70%rh

High voltage power alarm

VICTOR 90A / 90B high voltage alarm is a new safe, practical and convenient high voltage alarm device suitable for close voltage operators. After wearing the alarm by the operator, when approaching a certain distance from the high voltage charged body, the alarm according to the corresponding safety distance of the voltage level, to remind the electrical staff to pay attention to safety and avoid the high voltage electric shock accident. High voltage alarm above 1kV, non-contact sensing technology, alarm is accurate. The alarm has a unique automatic trigger detection function to ensure the safety of live workers. VICTOR 90A is worn on the upper part of the operator's outermost overalls arm, and VICTOR 90B is mounted on the operator's helmet.

Model	90A	90B
Alarm voltage range	1kVD500kV	
Alarm distance error	+10cm (23°C +1°C, 80%RH, under reference conditions)	
working frequency	50Hz/60Hz	
Test method	Contactless	
Detection mode	Auto trigger	
Battery Life	Continuous work (sound and light alarm): about 24 hours, standby time: about 12 months	
Alarm method	Indicator light: LED light visible under 8000XL visible light Buzzer: 60dB (distance 60CM)	
Protection level	IP54	
Working temperature and humidity	-10°C~40°C; below 80%RH	
Storage temperature and humidity	-10°C~60°C; below 70%RH	
power supply	2 CR1632 button batteries	
Display size	without	
body color	Black+orange	
Body weight	About 51g (including battery), About 60g (including battery)	
Standard inner packing	Color box	
Product Color	Black and Orange	
Size	88mmX32mmX30mm	



862M

Overview

Magnetic pole identification pen is a fast, easy and safe tool, which is used to identify the polarity of magnetic field. The N / S polarity can be distinguished by the contact between the probe and the object. This instrument has the characteristics of high identification accuracy, small and light, simple operation and exquisite workmanship. It is a highly sensitive product.

Technical parameter

Basic Function	862M
sensitivity	±5mT(50Gs)
display	2 LED lights (red = N pole, green = S pole)
battery	2 batteries, 1.5V AAA
usage time	More than 10 hours
service temperature	-20°C~+80°C
storage temperature	-40°C~+150°C
size	About 156 × 24 × 20mm
weight	About 55g

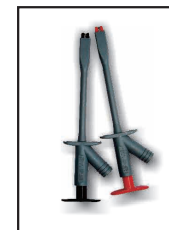
ELECTRONIC TESTING MULTI-FUNCTION PROBE

Product category: general accessories

A scalability probe with safety handle and pressure spring make testing more convenient .

Standard banana interface is adaptable to different test leads .

CAT III 1000V , CAT IV 600V 10A



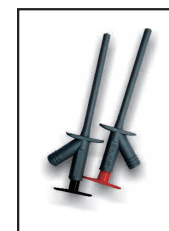
ELECTRONIC TESTING MULTI-FUNCTION PROBE

Product category: general accessories

A scalability small probe with safety handle and pressure spring make testing more convenient .

Standard banana interface is adaptable to different test leads .

CAT III 1000V 10A



TEST JACK

Product category: Multi-function standard adapter

switching test applies to resistance ,capacitance, triode and diode.



TEST LEADS

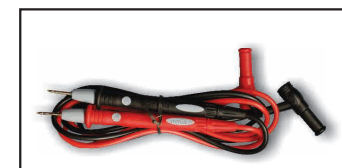
Product category: General accessories

Flexible club , full holster and cross jack to ensure the effectiveness of the connection.

Wire length is 900mm , stick length is 105mm ,effective probe is 18mm .

Resistance to low and high temperature : 0°C-40°C

CAT III 1000V 10A



TP01 BANANA TEMPERATURE PROBE

Product category: Temperature probe

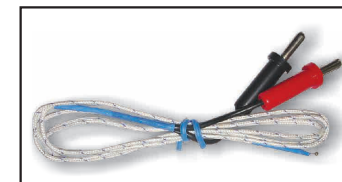
Cross jack, applies to general temperature measurement .

Teflon coating insulation .

For liquid and gel temperature measurement

Accuracy : ±0.75%

Testing range : -40°C-250°C (-40°F-482°F)



TP01 K TYPE TEMPERATURE PROBE

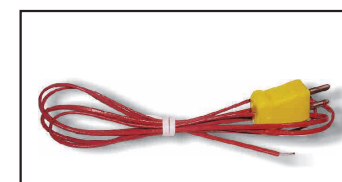
Product category: Temperature probe

Flat plug input to ensure the effectiveness of the connection.

applies to general temperature measurement.

Accuracy : ±0.75%

Testing range : -40°C-250°C (-40°F-482°F)





26/26H

Protection grade : IP65
Accuracy : $\pm 0.01\%$
HART communication (only VICTOR 26H)
Two independent channels for input and output, allowing in-time input and output operation;

Project		Model	26	26H
		Performance parameters		
Source	DC millivolt	Range	-10 ~ 110mV	-10 ~ 110mV
		Accuracy= $\pm(\% \text{ of the set value} + \% \text{ of range})$	0.01%+0.01%	0.01%+0.01%
		Resolution	1uV	1uV
	DC voltage	Range	-0.1 ~ 11V	-0.1 ~ 11V
		Accuracy= $\pm(\% \text{ of the set value} + \% \text{ of range})$	0.01%+0.01%	0.01%+0.01%
		Resolution	10uV/0.1mV	10uV/0.1mV
	DC current	Range	0 ~ 33mA	0 ~ 33mA
		Accuracy= $\pm(\% \text{ of the set value} + \% \text{ of range})$	0.01%+0.01%	0.01%+0.01%
		Resolution	1uA	1uA
	Sink current	Range	0 ~ 33mA	0 ~ 33mA
		Accuracy= $\pm(\% \text{ of the set value} + \% \text{ of range})$	0.01%+0.01%	0.01%+0.01%
		Resolution	1uA	1uA
	Resistance	External power supply	5 ~ 28V	5 ~ 28V
		Range	0 ~ 4K Ω	0 ~ 4K Ω
		Accuracy= $\pm(\% \text{ of the set value} + \% \text{ of range})$	0.01%+0.01%	0.01%+0.01%
	Thermocouple	Resolution	0.01 Ω /0.1 Ω	0.01 Ω /0.1 Ω
		Range	R/S/K/E/J/T/B/N/L/U	R/S/K/E/J/T/B/N/L/U
		Accuracy	0.4 $^{\circ}\text{C}$	0.4 $^{\circ}\text{C}$
	RTD	Resolution	0.1 $^{\circ}\text{C}/1^{\circ}\text{C}$	0.1 $^{\circ}\text{C}/1^{\circ}\text{C}$
		Range	Pt100/Pt200/Pt500/Pt1000/Cu10/Cu50	Pt100/Pt200/Pt500/Pt1000/Cu10/Cu50
		Accuracy	0.2 $^{\circ}\text{C}$	0.2 $^{\circ}\text{C}$
Measurement	Frequency (Hz)	Resolution	0.1 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$
		Range	1Hz ~ 50KHz	1Hz ~ 50KHz
		Accuracy	± 2 words	± 2 words
	Frequency (CMP)	Resolution	0.01Hz/1Hz/0.1KHz/2KHz	0.01Hz/1Hz/0.1KHz/2KHz
		Range	60 ~ 1200 CPM	60 ~ 1200 CPM
		Accuracy	± 2 words	± 2 words
	Pulse	Resolution	1CPM	1CPM
		Range	1Hz ~ 10KHz	1Hz ~ 10KHz
		Accuracy	± 2 words	± 2 words
	Switch	Resolution	1cyc	1cyc
		Range	1Hz ~ 50KHz	1Hz ~ 50KHz
		Accuracy	± 2 words	± 2 words
	Pressure	Resolution	0.01Hz/1Hz/0.1KHz/2KHz	0.01Hz/1Hz/0.1KHz/2KHz
		Range	Depends on the pressure module	Depends on the pressure module
		Accuracy= $\pm(\% \text{ of the set value} + \% \text{ of range})$	Depends on the pressure module	Depends on the pressure module
	HART	Resolution	5 digit display	5 digit display
		Range	1 ~ 1000000cyc	1 ~ 1000000cyc
		Accuracy	± 2 words	± 2 words
	Other functions	Resolution	1cyc	1cyc
		Range	24V	24V
		Accuracy	$\pm 10\%$	$\pm 10\%$
	Communication function	The maximum current	22mA	22mA
		Backlight	N/A	N/A
		Auto Power-off	$\checkmark$	$\checkmark$
	RS232 serial communication	Charging function	$\checkmark$	$\checkmark$
		Room temperature display	$\checkmark$	$\checkmark$
		Battery detection	$\checkmark$	$\checkmark$
	The ramp signal	The ramp signal	$\checkmark$	$\checkmark$
		Communication function	RS232 serial communication, can realize remote control instrument by the device driver software.	RS232 serial communication, can realize remote control instrument by the device driver software.

		Range	-5 ~ 550mV	-5 ~ 550mV
Measurement	DC millivolt	Accuracy= $\pm(\% \text{ of Reading} + \% \text{ of Range})$	0.01%+0.01%	0.01%+0.01%
		Resolution	1uV/10uV	1uV/10uV
		Range	-0.5 ~ 35V	-0.5 ~ 35V
	DC voltage	Accuracy= $\pm(\% \text{ of Reading} + \% \text{ of Range})$	0.01%+0.01%	0.01%+0.01%
		Resolution	0.1mV/1mV	0.1mV/1mV
		Range	-5 ~ 55mA	-5 ~ 55mA
	DC current	Accuracy= $\pm(\% \text{ of Reading} + \% \text{ of Range})$	0.01%+0.01%	0.01%+0.01%
		Resolution	1uA	1uA
		Range	0 ~ 5.5K Ω	0 ~ 5.5K Ω
	Resistance	Accuracy= $\pm(\% \text{ of Reading} + \% \text{ of Range})$	0.01%+0.01%	0.01%+0.01%
		Resolution	0.01 Ω /0.1 Ω	0.01 Ω /0.1 Ω
		Range	R/S/K/E/J/T/B/N/L/U	R/S/K/E/J/T/B/N/L/U
	Thermocouple	Accuracy	0.5 $^{\circ}\text{C}$	0.5 $^{\circ}\text{C}$
		Resolution	0.1 $^{\circ}\text{C}/1^{\circ}\text{C}$	0.1 $^{\circ}\text{C}/1^{\circ}\text{C}$
		Range	Pt100/Pt200/Pt500/Pt1000/Cu10/Cu50	Pt100/Pt200/Pt500/Pt1000/Cu10/Cu50
	RTD	Accuracy	0.3 $^{\circ}\text{C}$	0.3 $^{\circ}\text{C}$
		Resolution	0.1 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$
		Range	3Hz ~ 50KHz	3Hz ~ 50KHz
	Frequency (Hz)	Accuracy	± 2 words	± 2 words
		Resolution	0.01Hz	0.01Hz
	Frequency (CMP)	Range	180 ~ 3000000 CPM	180 ~ 3000000 CPM
		Accuracy	± 2 words	± 2 words
		Resolution	1CPM	1CPM
	Switch	Range	CLOSE/OPEN	CLOSE/OPEN
		Threshold	200 ~ 300 Ω	200 ~ 300 Ω
		Accuracy= $\pm(\% \text{ of Reading} + \% \text{ of Range})$	Depends on the pressure module	Depends on the pressure module
	Pressure	Resolution	5 digit display	5 digit display
		Range	1 ~ 1000000cyc	1 ~ 1000000cyc
		Accuracy	± 2 words	± 2 words
	Pulse	Resolution	1cyc	1cyc
		Range	24V	24V
		Accuracy	$\pm 10\%$	$\pm 10\%$
	Loop power supply	The maximum current	22mA	22mA
		Backlight	N/A	N/A
		Auto Power-off	$\checkmark$	$\checkmark$
	Other functions	Charging function	$\checkmark$	$\checkmark$
		Room temperature display	$\checkmark$	$\checkmark$
		Battery detection	$\checkmark$	$\checkmark$
	The ramp signal	The ramp signal	$\checkmark$	$\checkmark$
		Communication function	RS232 serial communication, can realize remote control instrument by the device driver software.	RS232 serial communication, can realize remote control instrument by the device driver software.

* Note: table range for the maximum range, precision is the highest accuracy (reading%), the resolution is the highest resolution.



24/25

Accuracy : $\pm 0.02\%$

Two independent channels for input and output, allowing in-time input and output operation;

Project		Model	24	25
		Performance parameters		
Source	DC millivolt	Range	-10 ~ 110mV	-10 ~ 110mV
		Accuracy= $\pm(\% \text{ of the set value} + \% \text{ of range})$	0.02%+0.01%	0.02%+0.01%
		Resolution	1uV	1uV
	DC voltage	Range	-0.1 ~ 11V	-0.1 ~ 11V
		Accuracy= $\pm(\% \text{ of the set value} + \% \text{ of range})$	0.02%+0.01%	0.02%+0.01%
		Resolution	10uV/0.1mV	10uV/0.1mV
	DC current	Range	0 ~ 22mA	0 ~ 22mA
		Accuracy= $\pm(\% \text{ of the set value} + \% \text{ of range})$	0.02%+0.02%	0.02%+0.02%
		Resolution	1uA	1uA
	Sink current	Range	0 ~ 22mA	0 ~ 22mA
		Accuracy= $\pm(\% \text{ of the set value} + \% \text{ of range})$	0.02%+0.02%	0.02%+0.02%
		Resolution	1uA	1uA
	Resistance	Range	0 ~ 40K Ω	0 ~ 40K Ω
		Accuracy= $\pm(\% \text{ of the set value} + \% \text{ of range})$	0.02%+0.02%	0.02%+0.02%
		Resolution	0.01 Ω /0.1 Ω /1 Ω	0.01 Ω /0.1 Ω /1 Ω
	Thermocouple	Range	R/S/K/E/J/T/B/N	R/S/K/E/J/T/B/N
		Accuracy	0.4 $^{\circ}\text{C}$	0.4 $^{\circ}\text{C}$
		Resolution	0.1 $^{\circ}\text{C}/1^{\circ}\text{C}$	0.1 $^{\circ}\text{C}/1^{\circ}\text{C}$
	RTD	Range	Pt100/Pt200/Pt500/ Pt1000/Cu10/Cu50	Pt100/Pt200/Pt500/ Pt1000/Cu10/Cu50
		Accuracy	0.2 $^{\circ}\text{C}$	0.2 $^{\circ}\text{C}$
		Resolution	0.1 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$
	Frequency	Range	1Hz ~ 110KHz	1Hz ~ 110KHz
		Accuracy	$\pm 2\text{words}$	$\pm 2\text{words}$
		Resolution	0.01Hz/1Hz/0.1KHz/2KHz	0.01Hz/1Hz/0.1KHz/2KHz
	Pulse	Frequency	1Hz ~ 10KHz	1Hz ~ 10KHz
		Range	1 ~ 1000000cyc	1 ~ 1000000cyc
		Accuracy	$\pm 2\text{words}$	$\pm 2\text{words}$
	Switch	Resolution	1cyc	1cyc
		Range	1Hz ~ 110KHz	1Hz ~ 110KHz
		Accuracy	$\pm 2\text{words}$	$\pm 2\text{words}$
	Pressure	Resolution	0.01Hz/1Hz/0.1KHz/2KHz	0.01Hz/1Hz/0.1KHz/2KHz
		Range	Depends on the pressure module	Depends on the pressure module
		Accuracy= $\pm(\% \text{ of the set value} + \% \text{ of range})$	N/A	Depends on the pressure module
	Resolution		5 digit display	

Measure	DC millivolt	Range	-5 ~ 550mV	-5 ~ 550mV
		Accuracy= $\pm(\% \text{ of Reading} + \% \text{ of Range})$	0.02%+0.01%	0.02%+0.01%
		Resolution	1uV/10uV	1uV/10uV
	DC voltage	Range	-0.5 ~ 55V	-0.5 ~ 55V
		Accuracy= $\pm(\% \text{ of Reading} + \% \text{ of Range})$	0.02%+0.01%	0.02%+0.01%
		Resolution	0.1mV/1mV	0.1mV/1mV
	DC current	Range	-5 ~ 55mA	-5 ~ 55mA
		Accuracy= $\pm(\% \text{ of Reading} + \% \text{ of Range})$	0.02%+0.01%	0.02%+0.01%
		Resolution	1uA	1uA
	Resistance	Range	0 ~ 5.5K Ω	0 ~ 5.5K Ω
		Accuracy= $\pm(\% \text{ of Reading} + \% \text{ of Range})$	0.05%+0.02%	0.05%+0.02%
		Resolution	0.01 Ω /0.1 Ω	0.01 Ω /0.1 Ω
	Thermocouple	Range	R/S/K/E/J/T/B/N	R/S/K/E/J/T/B/N
		Accuracy	0.7 $^{\circ}\text{C}$	0.7 $^{\circ}\text{C}$
		Resolution	0.1 $^{\circ}\text{C}/1^{\circ}\text{C}$	0.1 $^{\circ}\text{C}/1^{\circ}\text{C}$
Other functions	RTD	Range	Pt100/Pt200/Pt500/ Pt1000/Cu10/Cu50	Pt100/Pt200/Pt500/ Pt1000/Cu10/Cu50
		Accuracy	0.3 $^{\circ}\text{C}$	0.3 $^{\circ}\text{C}$
		Resolution	0.1 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$
	Frequency	Range	3 Hz ~ 50KHz	3 Hz ~ 50KHz
		Accuracy	$\pm 2\text{words}$	$\pm 2\text{words}$
		Resolution	0.01Hz/0.1Hz/1Hz	0.01Hz/0.1Hz/1Hz
	Switch	Range	N/A	CLOSE/OPEN
		Threshold	N/A	200 ~ 300 Ω
		Resolution	N/A	Depends on the pressure module
	Pressure	Accuracy= $\pm(\% \text{ of Reading} + \% \text{ of Range})$	N/A	Depends on the pressure module
		Resolution	N/A	5 digit display
		Range	0 ~ 500 Ω	0 ~ 500 Ω
	Continuity beeper	Accuracy	$\leq 50\text{Qsound}$	$\leq 50\text{Qsound}$
		Resolution	0.01 Ω	0.01 Ω
		Range	24V	24V
	Loop power supply	Accuracy	$\pm 10\%$	$\pm 10\%$
		The maximum current	22mA	22mA
Other functions	Backlight		☒	☒
	Auto Power-off		☒	☒
	Charging function		☒	☒
	Room temperature display		☒	☒
	Battery detection		☒	☒
	The ramp signal		☒	☒
	Communication function		RS232 serial communication, can realize remote control instrument by the device driver software.	RS232 serial communication, can realize remote control instrument by the device driver software.
	Safety		EN61010-1: 2001	EN61010-1: 2001
	Withstand voltage		The input and output AC350V/1 minutes	The input and output AC350V/1 minutes
	Insulation		The input and output DC500V/50MQ	The input and output DC500V/50MQ
	EMC		EN61326-1: 2006	EN61326-1: 2006
	Authentication		CE	CE
	Display		Double display on the LCD screen	Double display on the LCD screen
	Power supply		4x1.5V AAA Alkaline battery	4x1.5V AAA Alkaline battery
	Size		205 x 95 x 42 mm	205 x 95 x 42 mm
	Weight		About 500g	About 500g
	Standard Quantity Per Carton		10pcs	10pcs
	Standard Carton Measurement		395mm*385mm*260mm	395mm*385mm*260mm
	Standard Carton Gross Weight		12.4Kg	12.4Kg

* Note: table range for the maximum range, precision is the highest accuracy (reading%), the resolution is the



New Model

24 Pro

NEW type holster

Highest input measurement accuracy of 0.01%

Analog output measurement with the highest accuracy of 0.01%



11+

14+

15+

Technical data

Model	24 Pro		
Measure	DC voltage	Range	50mV-500mV-5V-30V
		Resolution	0.001mV-0.01mV-0.1V-0.001V
		Basic accuracy	0.01%+0.01%
	DC current	Range	50mA
		Resolution	0.001mA
		Basic accuracy	0.01%+0.01%
	Resistance	Range	500Ω-5KΩ
		Resolution	0.01Ω-0.1Ω
		Basic accuracy	0.01%+0.01%
	Thermocouple	Wire	2Wire-3Wire-4Wire
		Range	R.S.K.E.J.T.N.B.L.U.A.C.D.G.P.M
		Resolution	0.1°C-1°C
		Basic accuracy	0.5°C
Source	DC voltage	The reference junction compensation	√
		Range	Pt100(385)-Pt200(385)-Pt500(385)-Pt1000(385)-Pt100(3916)-Pt100(3926)-Ni120-Cu10-Cu50
		Resolution	0.1°C
	DC current	Range	0.3°C
		Resolution	0.001mA
		Basic accuracy	0.01%+0.01%
	Resistance	Range	400Ω-4000Ω
		Resolution	0.01Ω-0.1Ω
		Basic accuracy	0.01%+0.01%
	Thermocouple	Range	R.S.K.E.J.T.N.B.L.U.A.C.D.G.P.M
		Resolution	0.1°C-1°C
		Basic accuracy	0.5°C
		The reference junction compensation	√
Others	DC voltage	Range	100mV-1V-10V
		Resolution	0.001mV-0.01mV-0.001V
		Basic accuracy	0.01%+0.01%
	DC current	Range	33mA
		Resolution	0.001mA
		Basic accuracy	0.01%+0.01%
	Resistance	Range	400Ω-4000Ω
		Resolution	0.01Ω-0.1Ω
		Basic accuracy	0.01%+0.01%
	Thermocouple	Range	R.S.K.E.J.T.N.B.L.U.A.C.D.G.P.M
		Resolution	0.1°C-1°C
		Basic accuracy	0.5°C
		The reference junction compensation	√
Power Supply	DC voltage	Range	Pt100(385)-Pt200(385)-Pt500(385)-Pt1000(385)-Pt100(3916)-Pt100(3926)-Ni120-Cu10-Cu50
		Resolution	0.1°C
		Basic accuracy	0.3°C
	DC current	Range	2Wire-3Wire-4Wire
		Resolution	100Hz-1KHz-10KHz-50KHz-CPM
		Basic accuracy	0.01Hz-1Hz-0.1KHz-2KHz-1CPM
	Resistance	Range	400Ω-4000Ω
		Resolution	0.01Ω-0.1Ω
		Basic accuracy	0.01%+0.01%
	Thermocouple	Range	R.S.K.E.J.T.N.B.L.U.A.C.D.G.P.M
		Resolution	0.1°C-1°C
		Basic accuracy	0.5°C
		The reference junction compensation	√
Display	DC voltage	Range	100mV-1V-10V
		Resolution	0.001mV-0.01mV-0.001V
		Basic accuracy	0.01%+0.01%
	DC current	Range	33mA
		Resolution	0.001mA
		Basic accuracy	0.01%+0.01%
	Resistance	Range	400Ω-4000Ω
		Resolution	0.01Ω-0.1Ω
		Basic accuracy	0.01%+0.01%
	Thermocouple	Range	R.S.K.E.J.T.N.B.L.U.A.C.D.G.P.M
		Resolution	0.1°C-1°C
		Basic accuracy	0.5°C
		The reference junction compensation	√

Project		The reference model	11+	14+	15+
		Performance parameters			
Source	DC millivolt	Range	-10 ~ 1100mV	-10.000 ~ 100.000mV	-100 ~ 1100mV
		Accuracy= ±(% of the set value+ % of range)	0.02%+0.01%	0.02%+0.01%	0.02%+0.01%
		Resolution	1uV	1uV	0.01mV
	DC voltage	Range	-1 ~ 11V	-0.1 ~ 1V	-1 ~ 11V
		Accuracy= ±(% of the set value+ % of range)	0.02%+0.01%	0.02%+0.01%	0.02%+0.01%
		Resolution	0.1mV	10uV	0.1mV
	DC current	Range	0 ~ 22mA		0 ~ 22mA
		Accuracy= ±(% of the set value+ % of range)	0.02%+0.02%	N/A	0.02%+0.02%
		Resolution	1uA		1uA
	Sink current	Range	0 ~ 22mA		0 ~ 22mA
		Accuracy= ±(% of the set value+ % of range)	0.02%+0.02%	N/A	0.02%+0.02%
		Resolution	1uA		1uA
Source	Resistance	External power supply	5 ~ 28V		5 ~ 28V
		Range	0 ~ 40KΩ	0 ~ 4KΩ	
		Accuracy= ±(% of the set value+ % of range)	0.02%+0.02%	0.02%+0.02%	N/A
	Frequency	Range	0.01Ω/0.1Ω/1Ω	0.01Ω/0.1Ω	
		Resolution	1Hz ~ 110KHz		1Hz ~ 10KHz
		Accuracy	±2words	N/A	±2words
	Pulse	Resolution	0.01Hz/1Hz/0.1KHz/2KHz		0.01Hz/1Hz/0.1KHz
		Frequency	1Hz ~ 10KHz		1Hz ~ 10KHz
		Range	1 ~ 100000cyc		1 ~ 100000cyc
	Switch	Accuracy	±2words	N/A	±2words
		Resolution	1cyc		1cyc
		Range	1Hz ~ 110KHz		
Thermocouple	Thermocouple	Accuracy	±2words	N/A	N/A
		Resolution	0.01Hz/1Hz/0.1KHz/2KHz		
		Range	10types (R/S/K/E/J/T/B/N/L/U)	10types (R/S/K/E/J/T/B/N/L/U)	
	RTD	Accuracy	0.4°C	0.4°C	N/A
		Resolution	0.1°C/1°C	0.1°C/1°C	
		Range	6types (Pt100/Pt200/Pt500/Pt1000/Cu10/Cu50)	6types (Pt100/Pt200/Pt500/Pt1000/Cu10/Cu50)	N/A
	RTD	Accuracy	0.2°C	0.2°C	
		Resolution	0.1°C	0.1°C	
		Range			

709H

Protection grade : IP65

Accuracy : $\pm 0.01\%$

HART communication



Measure	DC millivolt	Range	N/A	-5 ~ 550mV	-20 ~ 220mV
		Accuracy= $\pm (\% \text{ of Reading} + \% \text{ of Range})$		0.02%+0.01%	0.02%+0.02%
		Resolution		1uV/10uV	0.01mV
	DC voltage	Range	N/A	1uV/10uV	-0.5 ~ 55V
		Accuracy= $\pm (\% \text{ of Reading} + \% \text{ of Range})$		N/A	0.02%+0.01%
		Resolution		N/A	0.1mV/1mV
	DC current	Range	N/A	N/A	-4 ~ 55mA
		Accuracy= $\pm (\% \text{ of Reading} + \% \text{ of Range})$		N/A	0.02%+0.01%
		Resolution		N/A	1uA
	Resistance	Range	N/A	0 ~ 5.5K Ω	N/A
		Accuracy= $\pm (\% \text{ of Reading} + \% \text{ of Range})$		0.05%+0.02%	N/A
		Resolution		0.01 Ω /0.1 Ω	N/A
	Frequency	Range	N/A	N/A	3 ~ 50KHz
		Accuracy		N/A	± 2 words
		Resolution		N/A	0.01Hz/0.1Hz/1Hz
Other functions	Switch	Range	N/A	N/A	CLOSE/OPEN
		Threshold		N/A	200 ~ 300 Ω
		Resolution		N/A	Depends on the pressure module
	Pressure	Range	N/A	N/A	Depends on the pressure module
		Accuracy= $\pm (\% \text{ of Reading} + \% \text{ of Range})$		N/A	Depends on the pressure module
		Resolution		N/A	5 digit display
	Loop power supply	Range	N/A	N/A	24V
		Accuracy		N/A	$\pm 10\%$
		The maximum current		N/A	22mA
	Thermocouple	Range	N/A	10types (R/S/K/E/J/T/B/N/L/U)	N/A
		Accuracy		0.7 $^{\circ}\text{C}$	N/A
		Resolution		0.1 $^{\circ}\text{C}$ /1 $^{\circ}\text{C}$	N/A
	RTD	Range	N/A	6types (Pt100/Pt200/Pt500/Pt1000/Cu10/Cu50)	N/A
		Accuracy		0.5 $^{\circ}\text{C}$	N/A
		Resolution		0.1 $^{\circ}\text{C}$	N/A
	Continuity beeper	Range	N/A	0 ~ 500 Ω	$\leq 250\Omega$ Sound
		Accuracy		$\leq 500\Omega$ Sound	$\leq 250\Omega$ Sound
		Resolution		0.01 Ω	$\leq 250\Omega$ Sound

* /te: table range for the maximum range, precision is the highest accuracy (reading%), the resolution is the highest resolution.

Project		Referencemodel Performance parameters	709H
Source	DC current (DCmA)	Range	0.000~22.000mA
		Accuracy ±(% of the set value + % of range)	0.01%+0.015%
		Resolution	1uA
	Analog transmitter (SIMULATE)	Range	0.000~22.000mA
		Accuracy ±(% of the set value + % of range)	0.01%+0.015%
		Resolution	1uA
		External power supply	5 ~ 28V
Measurement	DC voltage (DCV)	Range	-2.000 ~ 28.000V
		Accuracy ±(% of Reading+ % of Range)	0.01%+0.01%
		Resolution	1mV
	DC current (DCmA)	Range	-4.000 ~33.000mA
		Accuracy ±(% of Reading+ % of Range)	0.01%+0.01%
		Resolution	1uA
	Loop power supply (LOOP)	Range	24V
		The maximum current	22mA
		Driving ability	No HART resistance of 1KΩ. HART resistance is 750 Ω.
		HART communication	
Other functions	Protection grade	IP65	
	Backlight	✓	
	Backlight brightness adjustment	✓	
	25%、100%step output	✓	
	Automatic ramp	✓	
	Automatic step	✓	
	mA、%Switch the display	✓	
	Auto Power-off	✓	
	Power Adaptation function	✓	
	Battery Low display	✓	
PC online communication		Compatible with infrared isolation USB serial communication interface can realize remote control instrument	
Characteristic			
Electrical safety		EN61010-1；2001	
Insulation		DC500V /50MΩ	
EMC		EN61326-1; 2006	
Authentication		CE	
Display		3.2 inch TFT color display	
Power supply		4×1.5V AA Alkaline battery / adapter	
Size		206 × 97 × 60 mm	
Weight		About600g	
Standard Quantity Per Carton			
Standard Carton Measurement			
Standard Carton Gross Weight			



New Model

01S

NEW type holster
Accuracy : $\pm 0.05\%$



New Model

02S

NEW type holster
Accuracy : $\pm 0.05\%$

Output function	Range	Output range	Resolution	Accuracy
DC voltage	100mV	-10.000mV~110.00mV	0.01mV	0.05%+0.03mV
DCV	1V	-0.1000V~1.1000V	0.0001V	0.05%+0.3mV
Ohm	400Ω	0~400.0Ω	0.1Ω	0.05%+0.2Ω
OHM	4KΩ	0~4.000KΩ	1Ω	0.05%+2Ω
Thermocouple TC	R	0°C ~ 1767°C	1°C	0~100°C/10~1767°C 1.5°C/1.2°C
	S	0°C ~ 1767°C	1°C	0~100°C/100~1767°C 1.5°C/1.2°C
	K	-200.0°C ~ 1372.0°C	0.1°C	-200.0~-100.0°C/-100.0~400.0°C/400.0~1200.0°C/1200.0~1372.0°C 0.6°C/0.5°C/0.7°C/0.9°C
	E	-200.0°C ~ 1000.0°C	0.1°C	-200.0~-100.0°C/-100.0~600.0°C/600.0~1000.0°C 0.6°C/0.5°C/0.4°C
	J	-200.0°C ~ 1200.0°C	0.1°C	-200.0~-100.0°C/-100.0~800.0°C/800.0~1200.0°C 0.6°C/0.5°C/0.7°C
	T	-250.0°C ~ 400.0°C	0.1°C	-250.0~400.0°C 0.6°C
	N	-200.0°C ~ 1300.0°C	0.1°C	-200.0~-100.0°C/-100.0~900.0°C/900.0~1300.0°C 1.0°C/0.7°C/0.8°C
	B	600°C ~ 1820°C	1°C	600~800°C/800~1820°C 1.5°C/1.1°C
	A	0°C ~ 2500°C	1°C	0~1600°C/1600~2000°C/2000~2500°C 2.0°C/2.2°C/2.4°C
	C	0°C ~ 2310°C	1°C	0~1600°C/1600~2000°C/2000~2310°C 2.0°C/2.2°C/2.4°C
	D	0°C ~ 2310°C	1°C	0~100°C/100~270°C/270~1200°C/270~2310°C 2.6°C/2.4°C/2.2°C/2.4°C
	Pt100 385	-200.0°C ~ 800.0°C	0.1°C	-200.0~0.0°C/0.0~400.0°C/400.0~800.0°C 0.3°C/0.5°C/0.8°C
Thermal resistance RTD	Pt200 385	-200.0°C ~ 630.0°C	0.1°C	-200.0~100.0°C 0.8°C/0.9°C/1.0°C
	Pt500 385	-200.0°C ~ 630.0°C	0.1°C	100.0~300.0°C 0.4°C/0.5°C/0.7°C
	Pt1000 385	-200.0°C ~ 630.0°C	0.1°C	300.0~630.0°C 0.2°C/0.5°C/0.7°C
	Cu50	-50.0°C ~ 150.0°C	0.1°C	0.6°C

Output function	Range	Output range	Resolution	Accuracy
DC voltage	100mV	-10.000mV~110.00mV	0.01mV	0.05%+0.03mV
DCV	1V	-0.1000V~1.1000V	0.0001V	0.05%+0.3mV
Ohm	400Ω	0~400.0Ω	0.1Ω	0.05%+0.2Ω
OHM	4KΩ	0~4.000KΩ	1Ω	0.05%+2Ω
Thermocouple TC	R	0°C ~ 1767°C	1°C	0~100°C/10~1767°C 1.5°C/1.2°C
	S	0°C ~ 1767°C	1°C	0~100°C/100~1767°C 1.5°C/1.2°C
	K	-200.0°C ~ 1372.0°C	0.1°C	-200.0~-100.0°C/-100.0~400.0°C/400.0~1200.0°C/1200.0~1372.0°C 0.6°C/0.5°C/0.7°C/0.9°C
	E	-200.0°C ~ 1000.0°C	0.1°C	-200.0~-100.0°C/-100.0~600.0°C/600.0~1000.0°C 0.6°C/0.5°C/0.4°C
	J	-200.0°C ~ 1200.0°C	0.1°C	-200.0~-100.0°C/-100.0~800.0°C/800.0~1200.0°C 0.6°C/0.5°C/0.7°C
	T	-250.0°C ~ 400.0°C	0.1°C	-250.0~400.0°C 0.6°C
	N	-200.0°C ~ 1300.0°C	0.1°C	-200.0~-100.0°C/-100.0~900.0°C/900.0~1300.0°C 1.0°C/0.7°C/0.8°C
	B	600°C ~ 1820°C	1°C	600~800°C/800~1820°C 1.5°C/1.1°C
	A	0°C ~ 2500°C	1°C	0~1600°C/1600~2000°C/2000~2500°C 2.0°C/2.2°C/2.4°C
	C	0°C ~ 2310°C	1°C	0~1600°C/1600~2000°C/2000~2310°C 2.0°C/2.2°C/2.4°C
	D	0°C ~ 2310°C	1°C	0~100°C/100~270°C/270~1200°C/270~2310°C 2.6°C/2.4°C/2.2°C/2.4°C
	Pt100 385	-200.0°C ~ 800.0°C	0.1°C	-200.0~0.0°C/0.0~400.0°C/400.0~800.0°C 0.3°C/0.5°C/0.8°C
Thermal resistance RTD	Pt200 385	-200.0°C ~ 630.0°C	0.1°C	-200.0~100.0°C 0.8°C/0.9°C/1.0°C
	Pt500 385	-200.0°C ~ 630.0°C	0.1°C	100.0~300.0°C 0.4°C/0.5°C/0.7°C
	Pt1000 385	-200.0°C ~ 630.0°C	0.1°C	300.0~630.0°C 0.2°C/0.5°C/0.7°C
	Cu50	-50.0°C ~ 150.0°C	0.1°C	0.6°C

Measurement function	Range	Measurement range	Resolution	Accuracy
DC voltage	100mV	-110.00mV~110.00mV	0.01mV	0.05%+0.03mV
DCV	1V	-1.1000V~1.1000V	0.0001V	0.05%+0.3mV
	35V	-35.000V~35.000V	0.001V	0.02%+2mV
Resistance	500Ω	0~500.0Ω	0.01Ω	0.05%+0.2Ω
OHM	5KΩ	0~5.000KΩ	0.0001KΩ	0.05%+2Ω
Thermocouple TC	R	0°C ~ 1767°C	1°C	0~500°C 2.5°C
	S	0°C ~ 1767°C	1°C	500~1767°C 2°C
	K	-100.0°C ~ 1372.0°C	0.1°C	-100.0~0.0°C/0.0~1372.0°C 1.2°C/0.8°C
	E	-50.0°C ~ 1000.0°C	0.1°C	-50.0~0.0°C/0.0~1000.0°C 0.9°C/1.5°C
	J	-60.0°C ~ 1200.0°C	0.1°C	-60.0~0.0°C/0.0~1200.0°C 1.0°C/0.7°C
	T	-100.0°C ~ 400.0°C	0.1°C	-100.0~0.0°C/0.0~400.0°C 1.0°C/0.7°C
	N	-200.0°C ~ 1300.0°C	0.1°C	-200.0~0.0°C/0.0~1300.0°C 1.5°C/0.9°C
	B	600°C ~ 1820°C	1°C	600~800°C/800~1000°C/1000~1820°C 2.2°C/1.8°C/1.4°C
	A	0°C ~ 2500°C	1°C	0~1600°C/1600~2000°C/2000~2500°C 2.0°C/2.2°C/2.4°C
	C	0°C ~ 2310°C	1°C	0~1600°C/1600~2000°C/2000~2310°C 2.0°C/2.2°C/2.4°C
	D	0°C ~ 2310°C	1°C	0~100°C/100~270°C/270~1200°C/270~2310°C 2.6°C/2.4°C/2.2°C/2.4°C
	Pt100 385	-200.0°C ~ 800.0°C	0.1°C	-200.0~0.0°C/0.0~400.0°C/400.0~800.0°C 0.5°C/0.7°C/0.8°C
Thermal resistance RTD (4W)	Pt200 385	-200.0°C ~ 630.0°C	0.1°C	-200.0~100.0°C/100.0~300.0°C/300.0~630.0°C 0.8°C/0.9°C/1.0°C
	Pt500 385	-200.0°C ~ 630.0°C	0.1°C	-200.0~100.0°C/100.0~300.0°C/300.0~630.0°C 0.4°C/0.5°C/0.7°C
	Pt1000 385	-200.0°C ~ 630.0°C	0.1°C	-200.0~100.0°C/100.0~300.0°C/300.0~630.0°C 0.3°C/0.5°C/0.7°C
	Cu50	-50.0°C ~ 150.0°C	0.1°C	-50.0~150.0°C 0.7°C
On/off detection	500Ω	<50Ω sounding	0.01Ω	



04S/05S

NEW type holster
Accuracy : $\pm 0.05\%$

Output function	Range	Output range	Resolution	Accuracy
04S DC voltage DCV	10V	-1.000V~11.000V	0.001V	0.05%+2mV
DC current DCI	30mA	0.000mA~30.000mA	0.001mA	0.05%+4uA
05S DC current DCI	30mA	0.000mA~30.000mA	0.001mA	0.05%+4uA
Measurement function	Range	Measurement range	Resolution	Accuracy
DC voltage DCV	35V	-35.000V~35.000V	0.001V	0.02%+2mV
DC current DCI	30mA	-35.000mA~35.000mA	0.001mA	0.02%+4uA
05S Loop power supply LOOP	24 V			10%

New Model

06/07

NEW type holster
Accuracy:0.05%



Technical data

Project			V/mA Calibrator 06	Temperature Calibrator 07
Measure	DC voltage	Range	100mV-1V-35V	100mV-1V-35V
		Resolution	0.01mV-0.1mV-1mV	0.01mV-0.1mV-1mV
		Basic accuracy	0.05%+0.03mV	0.05%+0.03mV
	Resistance	Range	/	500Ω-5KΩ
		Resolution	/	0.01Ω-0.1Ω
		Basic accuracy	/	0.05%+0.2Ω
	DC current	Wire	/	2W-3W-4W
		Range	30mA	30mA
		Resolution	0.001mA	0.001mA
	Thermocouple	Basic accuracy	0.02%+4uA	0.02%+4uA
		Range	/	E,K,J,T,N,R,S,B,A,C,D
		Resolution	/	0.1°C-1°C
Source	DC voltage	Basic accuracy	/	0.7°C
		The reference junction compensation	/	√
		RTD	/	√
	Resistance	Range	/	Cu50, Pt100, Pt200, Pt500, Pt1000
		Resolution	/	0.1°C
		Basic accuracy	/	0.3°C
	DC current	Wire	/	2W-3W-4W
		Range	10V	100mV-1V-10V
		Resolution	0.001V	0.01mV-0.1mV-1mV
	Thermocouple	Basic accuracy	0.05%+2mV	0.05%+0.03mV
		Range	/	400Ω-4000Ω
		Resolution	/	0.1Ω-1Ω
Other	DC current	Basic accuracy	/	0.05%+0.2Ω
		Range	20mA	20mA
		Resolution	0.001mA	0.001mA
	Thermocouple	Basic accuracy	0.05%+4uA	0.05%+4uA
		Range	/	E,K,J,T,N,R,S,B,A,C,D
		Resolution	/	0.1°C-1°C
	RTD	Basic accuracy	/	0.7°C
		The reference junction compensation	/	√
		RTD	/	√
	Simulating transmitter	Range	/	Pt100, Pt200, Pt500, Pt1000, Cu50
		Resolution	/	0.1°C
		Basic accuracy	/	0.3°C
Power Supply	Auto Power-off	Range	3×AA	3×AA
		Resolution	/	/
		Basic accuracy	/	/
	Backlight	Range	180×90×52	180×90×52
		Resolution	/	/
		Basic accuracy	/	/
	Size	Weight	About 1kg	About 1kg
		Accessories	Test line, manual	Test line, manual, Thermocouple adapter
		Standard Quantity Per Carton	10PCS	10PCS
	Standard Carton Measurement	Standard Quantity Per Carton	395mm*385mm*260mm	395mm*385mm*260mm
		Standard Carton Measurement	11.5Kg	11.5Kg
		Standard Carton Cross Weight	/	/



77+



79A+



79+

Project			77+	78+	79+	79A+
Measurement	DC voltage	Range	±51V	60mV-1000V	60mV-1000V	50mV-1000V
		The highest resolution	10mV	0.01mV	0.01mV	0.01mV
		Basic accuracy	0.5%	0.2%	0.2%	0.1%
	AC voltage	Range	510V	6V-600V	6V-600V	1000V
		The highest resolution	100mV	0.1mV	0.1mV	0.1mV
		Basic accuracy	1.5%	0.5%	0.5%	0.5%
	VFC	AC Voltage	✓	600V	600V	500V
	Resistance	Range	5kΩ	600Ω-60MΩ	600Ω-60MΩ	50MΩ
		The highest resolution	1Ω	0.1Ω	0.1Ω	0.1Ω
		Basic accuracy	0.5%	0.2%	0.2%	0.1%
	DC current	Range	±50mA	600mA	600mA	±500mA
		The highest resolution	10uA	10uA	10uA	1uA
		Basic accuracy	0.1%+4	0.2%	0.2%	0.1%
	AC current	Range		600mA	600mA	500mA
		The highest resolution	N/A	10uA	10uA	1uA
		Basic accuracy		0.5%	0.5%	0.5%
	Thermocouple	Range			R, S, B, E, K, J, T, N	R, S, B, E, K, J, T, N
		The highest resolution	N/A	N/A	1°C	1°C
		Basic accuracy			0.5%	0.5%
	RTD	Range			Cu50, Pt100, Pt1000	Cu50, Pt100, Pt1000
		The highest resolution	N/A	N/A	1°C	1°C
		Basic accuracy			0.5%	0.5%
	CAP	Range				1000uF
		The highest resolution	N/A	N/A	N/A	0.01nF
		Basic accuracy				5%
Source	Frequency		N/A	10Hz~10kHz	10Hz~10kHz	10Hz~10kHz
	Diode test		✓	✓	✓	✓
	Continuity beeper		✓	✓	✓	✓
	Data hold		✓	✓	✓	✓
	Relative value measurement		N/A	✓	✓	✓
	DC voltage	Range	-1V-11V	100mV-10V	100mV-10V	100mV-10V
		Resolution	0.01V	0.1mV, 1mV	0.01mV, 0.1mV	0.001mV, 0.01mV, 0.1mV
		Basic accuracy	0.2%+4	0.2%	0.2%	0.2%
	Resistance	Range	N/A	N/A	0~400.0Ω	4kΩ
		Resolution			0.1Ω	0.1Ω
		Basic accuracy			0.05%+2	0.2%
	DC current	Range	22mA	30mA	30mA	30mA
		Resolution	0.001mA	0.01mA	0.001mA	0.001mA
		Basic accuracy	0.2%	0.2%	0.2%	0.2%
	Simulating transmitter		✓	✓	✓	✓
	25%、100% Step output		✓	✓	✓	✓
	Automatic ramp		N/A	✓	✓	✓
	Automatic step		N/A	✓	✓	✓
	Display current and % of span		✓	✓	✓	✓
	Loop power		24V	24V	24V	24V
	Frequency		N/A	100Hz-10kHz	100Hz-10kHz	1.0Hz-11.0kHz
	Thermocouple		N/A	N/A	R, S, B, E, K, J, T, N	R, S, B, E, K, J, T, N
	RTD		N/A	N/A	Cu50, Pt100, Pt1000	Cu50, Pt100, Pt1000
	The 24V loop power supply		✓	✓	✓	✓
	Built in 250Ω		✓	✓	✓	✓
Loop detection	Power Supply		3×1.5V AA Alkaline battery	4×1.5V AAA Alkaline battery	4×1.5V AAA Alkaline battery	4×1.5V AA Alkaline battery
	Auto Power-off		✓	✓	✓	✓
	Backlight		N/A	✓	✓	✓
	Safety		CAT IV 600V Pollution degree 2	CAT IV 600V Pollution degree 2	CAT IV 600V Pollution degree 2	CAT IV 600V Pollution degree 2
	Size		180×90×52	205×95×42	205×95×42	205×97×60
	Weight		About 400g	About 500g	About 500g	About 1600g
	Accessories		Test line、manual、fuse	Test line、manual、fuse	Test line、manual、fuse	Test line、manual、fuse
	Standard Quantity Per Carton		12pcs	10pcs	10pcs	6pcs
	Standard Carton Measurement		395mm*385mm*260mm	395mm*385mm*260mm	395mm*385mm*260mm	395mm*385mm*260mm
	Standard Carton Gross Weight		9.2Kg	9.8Kg	10.2Kg	10.5Kg

PCE01/02 Pressure Calibration Instrument

PCE01/02 Pressure Calibration Instrument includes process calibration device, communication cable for pressure module, pressure transformation joint, high accuracy pressure module and common thread transformation joint. Cooperate use of the Instrument with pressure manual pump suit can make Users' pressure calibration more convenient. This Instrument is widely used in measurement, petroleum, chemical, power, metallurgy, national defense and instrument manufacture industries for precise measurement and calibration of pressure measurement.

PCE01/02 pressure calibration instrument, a perfect combination of electric signal calibration and pressure signal calibration.

1.Features of the Pressure Calibration Instrument:

- Can make on-spot calibration of various pressure instruments or equipments, provide with 20 pressure modules of different types and ranges, the pressure calibration range is from -100KPA~60MPa with 0.05% high accuracy.
- Can measure and output electric signals of DC voltage, DC current, Ohms, frequency, thermocouples, RTD with basic accuracy as high as 0.02%(specific functions are set by the configuration selected by Users).
- Can simulate transmitter, provide 24V DC power.
- Portable suitcase, system-wide configurations, convenient to use and carry.
- Selectable pressure manual pump to make the calibration much easier.



2.pressure calibration device configuration table

Serial number	Part name	Model /specification	Number	Remarks
1	Multifunctional process calibrator	25	1	Only PCE02
2	V/mA/pressure calibrator	15+	1	Only PCE01
3	VPMS seriesdigital pressure module	20 kinds of optional	1	You can select multiple
4	CALCP pressure adapter	A000018	1	
5	Communication cable	A000046	1	
6	The adapter	1/4 NPT internal thread 1/4 BSP external thread	1	Options
7	The adapter	M20*1.5internal thread 1/4 BSP external thread	1	Options
8	Handpump	K/P/-0.85~25BAR	1	Options
9	Hand pump	HTP1/0~700BAR Attached: portable box 1, hose 1, all kinds of pressure adapter 8, kettle 1, the sealing gasket several	1	Options

PCE03/04 Pressure Calibration Equipment Introduce

PCE03/04 Pressure Calibration Equipment includes a process calibrator, pressure module communication cable, high accuracy pressure module and a usual thread adapter. used in conjunction with pressure hand pump kit, Let users pressure calibration more simple and convenient. The equipment can be used to precision pressure test and pressure calibration in metrology, petroleum, chemical, power, metallurgy, national defense and instrument manufacturing industry.

PCE03/04 Pressure Calibration Equipment is a perfect combination of electrical signal and pressure signal calibration.

1. Pressure Calibration Equipment characteristic

- Pressure Calibration Equipment can calibrate different types of pressure instrument or equipment, and it can equipped with 20 different types, different range pressure module, pressure calibration range from -100KPa to 60MPa, the accuracy up to 0.05%.
- Measurement and Output DC voltage, DC current, Ohm, Frequency, Thermocouple, Thermal resistance, almost all electrical signals. basic accuracy up to 0.02% (particular functions depending on the user's configuration).
- Pressure Calibration Equipment can simulate the transmitter, 24V DC power supply.
- Portable suitcase, systematism configuration, convenient use and portability.
- User can choose with pressure hand pump, so that the pressure calibration easier.



2. Pressure Calibration Equipment configuration table

serial number	Configuration item	Model	Number	Remark
1	Multifunction Process Calibrator	26	1	Only PCE03
2	Multifunction Process Calibrator	26H	1	Only PCE04
3	VPM-S series digital pressure module	More than 20 kinds of types	1	User can select one or more
4	Communication cable	A000046	1	
5	Thread adapter	1/4 NPT female to 1/4 BSP male	1	Options
6	Thread adapter	M20*1.5 female to 1/4 BSP male	1	Options
7	hand pump kit	K/P40.85~25BAR	1	Options
8	hand pump kit	HTP1/0~700BAR	1	

Note : 1, 2, 3, 4, items details please see the "product catalog".

VPM-S series digit pressure module introduce

Feature :

VPM-S series digit pressure module contains more pressure type, such as gauge, compound and absolute; Self temperature compensation; Digital communication mode; the modules are compatible with YITENSEN calibrators; performance to meet almost any calibration and measurement task.

- High measure accuracy : 0.05% F.S. , temperature coefficient is $\pm 0.001\%/^{\circ}\text{C}$
- Wide measure range : $-0.1 \sim 60\text{MPa}$, more than a score of pressure ranges
- Wide temperature compensate range : from 0 to 50°C
- More Pressure Type : gauge, absolute and compound pressure modules available
- Digit communication output : pressure resolution is 5 digits, support exchange of pressure modules without setup and calibration.
- Self contained calibration : Calibration data are stored and processed inside the VPM. Enabling calibration and traceability follows the module.
- Portable and rugged construction : Engineered for rough field use, almost unbreakable.
- The VPM-S series digit pressure modules are compatible with YITENSEN25 or YITENSEN15+ calibrators.



Pressure Module Model, Range & Acc.						
Model	Range(kPa)	Range(bar)	Range(psi)	Sensor type	Pressure	Accuracy (%) 0~50°C
VPM100KGS	0~100KPa	0~1bar	0~15psi	isolated, 316 stainless steel	gauge	0.05
VPM200KGS	0~200KPa	0~2bar	0~30psi	isolated, 316 stainless steel	gauge	0.05
VPM500KGS	0~500KPa	0~5bar	0~72psi	isolated, 316 stainless steel	gauge	0.05
VPM001MGS	0~1MPa	0~10bar	0~150psi	isolated, 316 stainless steel	gauge	0.05
VPM002MGS	0~2MPa	0~20bar	0~300psi	isolated, 316 stainless steel	gauge	0.05
VPM005MGS	0~5MPa	0~50bar	0~725psi	isolated, 316 stainless steel	gauge	0.05
VPM010MGS	0~10MPa	0~100bar	0~1500psi	isolated, 316 stainless steel	gauge	0.05
VPM020MGS	0~20MPa	0~200bar	0~3000psi	isolated, 316 stainless steel	gauge	0.05
VPM040MGS	0~40MPa	0~400bar	0~5800psi	isolated, 316 stainless steel	gauge	0.05
VPM060MGS	0~60MPa	0~600bar	0~8700psi	isolated, 316 stainless steel	gauge	0.05
VPM100KAS	0~100KPa	0~1bar	0~15psi	isolated, 316 stainless steel	vacuum	0.05
VPM200KAS	0~200KPa	0~2bar	0~30psi	isolated, 316 stainless steel	vacuum	0.05
VPM500KAS	0~500KPa	0~5bar	0~72psi	isolated, 316 stainless steel	vacuum	0.05
VPM001MAS	0~1MPa	0~10bar	0~150psi	isolated, 316 stainless steel	absolute	0.05
VPM002MAS	0~2MPa	0~20bar	0~300psi	isolated, 316 stainless steel	absolute	0.05
VPM005MAS	0~5MPa	0~50bar	0~725psi	isolated, 316 stainless steel	absolute	0.05
VPM010MAS	0~10MPa	0~100bar	0~1500psi	isolated, 316 stainless steel	absolute	0.05
VPM020MAS	0~20MPa	0~200bar	0~3000psi	isolated, 316 stainless steel	absolute	0.05
VPM100KCS	-100~100KPa	-1~1bar	-15~15psi	isolated, 316 stainless steel	Compound	0.05
VPM200KCS	-100~200KPa	-1~2bar	-15~30psi	isolated, 316 stainless steel	Compound	0.05
VPM500KCS	-100~500KPa	-1~7bar	-15~100psi	isolated, 316 stainless steel	Compound	0.05
VPM001MCS	-0.1~1MPa	-1~10bar	-15~150psi	isolated, 316 stainless steel	Compound	0.05
VPM002MCS	-0.1~2MPa	-1~20bar	-15~300psi	isolated, 316 stainless steel	Compound	0.05



60F/60G/60H



3123

3125



3126

Technical data

Function	60F	60G	60H
Insulation resistance	Resistance range	50V /200MΩ	N/A
		100V / 500MΩ	N/A
		250V / 2000MΩ	250V / 2000MΩ
		500V /5GΩ	500V /1GΩ
		1000V /10GΩ	1000V /20GΩ
		1500V /20GΩ	N/A
		2000V /50GΩ	N/A
		2500V /100GΩ	2500V /50GΩ
Voltage test	DC Range	0 ~ 1000V	30 ~ 1000V
	AC Range	30 ~ 750V	30 ~ 750V
PI	√	√	√
DAR	√	√	√
COMP	√	√	√
Short circuit current	About 1.3mA	About 1.3mA	About 1.3mA
TIME	√	√	√
Automatic release voltage	√	√	√
Power Supply	Alkaline battery 1.5V (LR6) ×The 8 section	Alkaline battery 1.5V (LR6) ×The 8 section	Alkaline battery 1.5V (LR6) ×The 8 section
Automatic shutdown	√	√	√
Backlight	The white LED	The white LED	The white LED
Storage	100 groups	100 groups	100 groups
adapter interface	√	√	√
Size	178(L)×110(W)×59(D)mm	178(L)×110(W)×59(D)mm	178(L)×110(W)×59(D)mm
Weight	About 600g (Does not contain a battery)	About 600g (Does not contain a battery)	About 600g (Does not contain a battery)
Standard Quantity Per Carton	12 pcs	12 pcs	12 pcs
Standard Carton Measurement	430×350×225mm	430×350×225mm	430×350×225mm
Standard Carton Gross Weight	12.4KG	12.2KG	10.8KG

Technical data

Model	3123	3125	3126
250V	Resistance range	0 ~ 250GΩ	0 ~ 250GΩ
	Resistance accuracy	5%	5%
	Rated current	1mA	1mA
500V	Resistance range	0 ~ 500GΩ	0 ~ 500GΩ
	Resistance accuracy	5%	5%
	Rated current	1mA	1mA
1000V	Resistance range	0 ~ 1000GΩ	0 ~ 1000GΩ
	Resistance accuracy	5%	5%
	Rated current	1mA	1mA
2500V	Resistance range	0 ~ 2.5TΩ	0 ~ 2.5TΩ
	Resistance accuracy	5%	5%
	Rated current	1mA	1mA
5000V	Resistance range	N/A	0 ~ 5TΩ
	Resistance accuracy		5%
	Rated current		1mA
The leakage current measurement		0 ~ 5000uA	0 ~ 5000uA
Short circuit current		About 3mA	About 3mA
Polarization index (PI)		√	√
Induced absorption ratio (DAR)		√	√
Step voltage (SV)		√	√
The timing measurement (TIME)		√	√
Slope test (RAMP)		√	√
Comparison function (COMP)		√	√
Automatic release voltage		√	√
Temperature measurement	Range	0 ~ 70.0°C	0 ~ 70.0°C
Voltage test	DC Range	0 ~ 1000V	0 ~ 1000V
	AC Range	30 ~ 750V	30 ~ 750V
Storage	Manual: 500groups	Manual: 500groups	Manual: 500groups
	Homework: 1000groups	Homework: 1000groups	Homework: 1000groups
Online communication		Isolation of USB communication, SCPI command, can realize remote control instrument by the device driver software	Isolation of USB communication, SCPI command, can realize remote control instrument by the device driver software
The system time		The date +24h time (Replace the battery without re setting)	The date +24h time (Replace the battery without re setting)
The power indicator		Display the remaining battery power	Display the remaining battery power
Automatic shutdown		√	√
Backlight		The white LED	The white LED
Size and shape		210mm(L) × 155mm(W) × 95mm(D)	210mm(L) × 155mm(W) × 95mm(D)
Weight		1750g (Does not contain a battery)	1750g (Does not contain a battery)
Power supply		Alkaline battery 1.5V (LR6) × The 8 section The power adapter (AC100~250V)*	Alkaline battery 1.5V (LR6) × The 8 section The power adapter (AC100~250V)*
Overload	Insulation resistance:	AC1200V/10S	Insulation resistance: AC1200V/10S
	Voltage range:	AC720V/10S	Voltage range: AC720V/10S
Withstand voltage		AC8320V(50/60Hz)/5S (Between the circuit and the outer box)	AC8320V(50/60Hz)/5S (Between the circuit and the outer box)
Insulation resistance		1000MΩ or greater/ DC 1000V (Between the circuit and the outer box)	1000MΩ or greater/ DC 1000V (Between the circuit and the outer box)
Standard Quantity Per Carton		4pcs	4pcs
Standard Carton Measurement		510mm*350mm*330mm	510mm*350mm*330mm
Standard Carton Gross Weight		13Kg	14Kg



4106A



4107B



4108

Technical data

Function		4106	4106A
Earth Resistance function	Range	20Ω, ±(2%+15)	20Ω, ±(2%+3)
	accuracy	200Ω, ±(2%+5)	200Ω, ±(2%+3)
		2000Ω, ±(3%+5)	2000Ω, ±(2%+3)
		20kΩ, ±(3%+5)	N/A
Short circuit current		About 20mA	About 3mA
Voltage test	Range	UST 50V	UST 50V
Measurement of RE method		2pole, 3pole, 4pole	3pole, 4pole
Comparison function (COMP)		✓	✓
ρ		✓	✓
Storage		100 groups	N/A
Power supply		Alkaline battery 1.5V (LR6) × The 8 section	Alkaline battery 1.5V (LR6) × The 8 section
adapter interface		✓	✓
Automatic shutdown		✓	✓
Backlight		The white LED	The white LED
Size and shape		178(L) × 110(W) × 58.5(D) mm	178(L) × 110(W) × 58.5(D) mm
Weight		About 500g (Does not contain a battery)	About 500g (Does not contain a battery)
Standard Quantity Per Carton		6pcs	6pcs
Standard Carton Measurement		530 × 405 × 310 mm	530 × 405 × 310 mm
Standard Carton Gross Weight		21kg	19.4kg

Technical data

Model		4107A	4107B	4108
RE	Range	0.020Ω ~ 19.99kΩ	0.020Ω ~ 19.99kΩ	0.02Ω ~ 199.9kΩ
	Basic accuracy	2%+0.03Ω	2%+0.03Ω	2%+5
A single clamp	Range	N/A	0.020Ω ~ 19.99kΩ	0.02Ω ~ 19.99kΩ
	Basic accuracy		5%+0.03Ω	5%+5
Double clamp	Range	N/A	0.02Ω ~ 100Ω	0.02Ω ~ 100Ω
	Basic accuracy		10%+0.6	10%+2
Equipotential resistance	Range	N/A	N/A	0.02Ω ~ 1999Ω
	Basic accuracy			2%+2
Voltage test	DC Range	0 ~ ±999.9V	0 ~ ±999.9V	N/A
	AC Range	30.0 ~ 750.0V	30.0 ~ 750.0V	
Disturbance voltage (UST)	Range	0.0V ~ 50.0V	0.0V ~ 50.0V	0.0V ~ 50.0V
	Basic accuracy	5%+5	5%+5	5%+5
Interference frequency (FST)	Range	16 ~ 400Hz	16 ~ 400Hz	16 ~ 400Hz
	Basic accuracy	1%+5	1%+5	1%+5
Clamp current measurement (IST)	Range	N/A	1.0mA ~ 20.0A	1.0mA ~ 20.0A
	Basic accuracy		5%+5	5%+5
ρ		✓	✓	✓
Short circuit current		<250mA	<250mA	<250mA
COMP		✓	✓	✓
Measurement method		2pole, 3pole, 4pole	2pole, 3pole, 4pole, single clamp, double clamp	2pole, 3pole, 4pole, single clamp, double clamp
Power Supply		Alkaline battery 1.5V (LR6) × The 8 section	Alkaline battery 1.5V (LR6) × The 8 section	Alkaline battery 1.5V (LR6) × The 8 section
Automatic shutdown		✓	✓	✓
Display type		240 * 128 dot matrix	LCD	LCD
Backlight		✓	✓	✓
Storage		✓	✓	✓
Communication		USB	USB	USB
Size		210mm(L) × 155mm(W) × 95mm(D)	210mm(L) × 155mm(W) × 95mm(D)	210mm(L) × 155mm(W) × 95mm(D)
Weight		About 5500g (Does not contain a battery)	About 6500g (Does not contain a battery)	About 6500g (Does not contain a battery)
Standard Quantity Per Carton		2pcs	2pcs	1pcs
Standard Carton Measurement		510 × 350 × 330 mm	510 × 350 × 330 mm	395mm × 385mm × 260mm
Standard Carton Gross Weight		11.9kg	14kg	7.9kg

Technical data

Project		98A+	98C+
DC voltage	Range	200mV/2V/20V/200V/1000V	200mV/2V/20V/200V/1000V
	Basic accuracy	±(0.05%+10)	±(0.05%+10)
AC voltage	Range	200mV/2V/20V/200V/1000V	200mV/2V/20V/200V/1000V
	Basic accuracy	±(0.5%+40)	±(0.5%+40)
DC current	Range	200uA/2000uA/20mA/200mA/2A/10A	200uA/2000uA/20mA/200mA/2A/10A
	Basic accuracy	±(0.2%+10)	±(0.2%+10)
AC current	Range	200uA/2000uA/20mA/200mA/2A/10A	200uA/2000uA/20mA/200mA/2A/10A
	Basic accuracy	±(0.8%+30)	±(0.8%+30)
Resistance	Range	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ/60MΩ	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ/60MΩ
	Basic accuracy	±(0.2%+5)	±(0.2%+5)
Capacitance	Range	10nF/100nF/1000nF/10uF/100uF/1000uF/10mF/100mF	10nF/100nF/1000nF/10uF/100uF/1000uF/10mF/100mF
	Basic accuracy	±(5%+5)	±(5%+5)
Frequency	Range	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz/5MHz	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz/5MHz
	Basic accuracy	±(0.02%+4)	±(0.02%+4)
Thermocouple	Range	K indexing: -200.0°C ~ 1372.0°C	K indexing: -200.0°C ~ 1372.0°C
	Basic accuracy	±(0.5%+3°C)	±(0.5%+3°C)
RTD	Range	Pt100: -200.0°C ~ 850.0°C	Pt100: -200.0°C ~ 850.0°C
	Basic accuracy	±(0.5%+3°C)	±(0.5%+3°C)
Display words		22000	22000
The measurement rate		Slow 5 times/second; Fast 20 times/second	Slow 5 times/second; Fast 20 times/second
Analog Bar graph		20 times / sec	20 times / sec
Automatic / manual range		✓	✓
Measure the true effective value		✓	✓
Bandwidth		20Hz~1kHz	20Hz~1kHz
The duty ratio		10% ~ 90%	10% ~ 90%
Diode test		✓	✓
Continuity beeper		✓	✓
dBm		✓	✓
AC+DC/AC+Hz		✓	✓
MAX/MIN/AVG		✓	✓
Relative value measurement		✓	✓
Data Hold		✓	✓
Auto Hold		✓	✓
Peak Hold		✓	✓
Comparison function		✓	✓
VFC		✓	✓
The reference junction compensation		✓	✓
°C/°F conversion		✓	✓
Input impedance		10MΩ	10MΩ
Data recording		2000 group	2000 group
Online communication		Infrared USB communication module and PC communication.	1-The wireless communication module and PC communication 2-APP"
Auto power-off		✓	✓
Display type		LCD	LCD
Backlight		✓	✓
Power Supply		3×AAA Alkaline batteries	3×AAA Alkaline batteries
Safety		CAT. III, 1000V; CAT. IV, 600V	CAT. III, 1000V; CAT. IV, 600V
Electromagnetic compatibility		IEC61326-1, Group2, Class B	IEC61326-1, Group1, Class B
Size		185(L)×90(W)×54(D)mm	185(L)×90(W)×54(D)mm
Weight		About500g	About500g
Standard Quantity Per Carton		10pcs	10pcs
Standard Carton Measurement		395mm×385mm×260mm	395mm×385mm×260mm
Standard Carton Cross Weight		10Kg	10Kg

Project		189A
DC voltage	Range	50mV/500mV/5V/50V/500V/1000V
	Basic accuracy	± (0.025%+5dgt)
AC voltage	Range	50mV/500mV/5V/50V/500V/750V
	Basic accuracy	± (0.7%+30dgt)
DC current	Range	500uA/5000uA/50mA/500mA/5A/10A
	Basic accuracy	± (0.15%+10dgt)
AC current	Range	500uA/5000uA/50mA/500mA/5A/10A
	Basic accuracy	± (0.8%+30dgt)
Resistance	Range	50Ω/500Ω/5kΩ/50kΩ/500kΩ/5MΩ/50MΩ
	Basic accuracy	± (0.05%+5dgt)
Capacitance	Range	10nF/100nF/1000nF/10uF/100uF/1000uF/10mF/100mF
	Basic accuracy	± (5%+5dgt)
Frequency	Range	10Hz ~ 100kHz
	Basic accuracy	± (0.02%+4dgt)
Thermocouple	Range	K indexing: -200.0°C-1360.0°C
	Basic accuracy	± (0.5%+3°C)
RTD	Range	Pt100: -200.0°C-850.0°C
	Basic accuracy	± (0.5%+3°C)
Display words		55000
The measurement rate		Fast: 20 times / sec Slow: 5 times / sec
Analog Bar graph		The fastest rate: 20 times / sec
Automatic / manual range		✓
Measure the true effective value		✓
Bandwidth		50kHz
Duty cycle ratio		10%~90%
Diode test		✓
Continuity beeper		✓
dBm		✓
Low pass filter		✓
MAX/MIN/AVG		✓
Relative value measurement		✓
Data Hold		✓
Data Hold		✓
Peak Hold		✓
The reference junction compensation		✓
°C/°F conversion		✓
Change rate		✓
Input impedance		10MΩ
Data recording		Manual record: 1000group Homework: 1000 groups of records
Online communication		189A can undertake wired communication with infrared serial port of the compatible USB connection. Support ASCII can realize remote control instrument by the device driver software. The powerful function, friendly man-machine interface, the user can conveniently obtain multiple data parameters of instrument, and the data storage, processing, management, access to data is displayed in the graphical or tabular form.
Auto power-off		✓
Display type		LCD
Backlight		✓
Power Supply		4×1.5 AA Alkaline batteries
Safety		CAT IV 600V, CAT III 1000V
Electromagnetic compatibility		IEC61326-1, Group1, Class B
Size		206×97×60mm
Weight		About 500g
Standard Quantity Per Carton		10pcs
Standard Carton Measurement		395mm×385mm×260mm
Standard Carton Gross Weight		11.3Kg



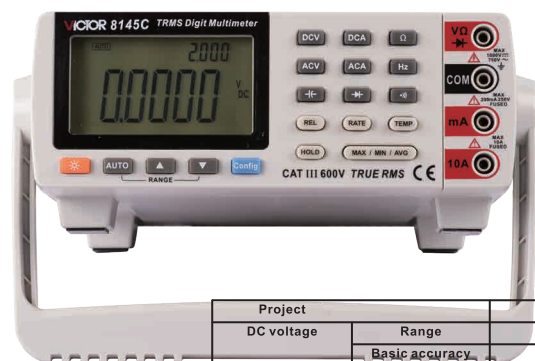
98A+



98C+



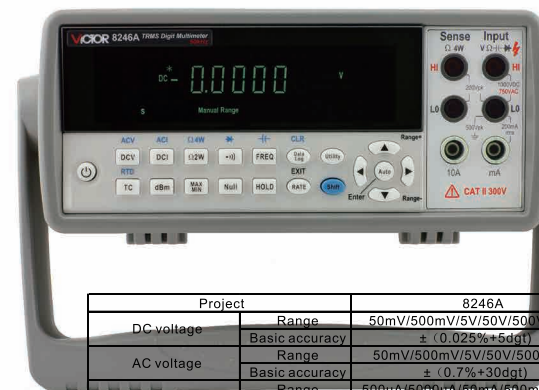
189A



8145C

Accuracy: 0.05%
Display words: 22000

Project		8145C
DC voltage	Range	200mV/2V/20V/200V/1000V
	Basic accuracy	$\pm (0.05\% + 4\text{dgt})$
AC voltage	Range	200mV/2V/20V/200V/750V
	Basic accuracy	$\pm (0.5\% + 40\text{dgt})$
DC current	Range	0.2mA/2mA/20mA/200mA/10A
	Basic accuracy	$\pm (0.2\% + 10\text{dgt})$
AC current	Range	0.2mA/2mA/20mA/200mA/10A
	Basic accuracy	$\pm (0.8\% + 30\text{dgt})$
Resistance	Range	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ/60MΩ
	Basic accuracy	$\pm (0.2\% + 5\text{dgt})$
Capacitance	Range	10nF/100nF/1000nF/10uF/100uF/1000uF
	Basic accuracy	$\pm (5\% + 5\text{dgt})$
Frequency	Range	10Hz ~ 10MHz
	Basic accuracy	$\pm (0.02\% + 4\text{dgt})$
Thermocouple	Range	K: -200.0°C ~ 1372.0°C
	Basic accuracy	$\pm (0.5\% + 5^\circ\text{C})$
Display words		22000
The measurement		Quick: 20 times / sec Slow: 3 time sec
Automatic /		✓
True RMS		✓
Bandwidth		1kHz
Diode test		✓
Continuity beeper		✓
MAX/MIN/AVG		✓
Relative value measurement		✓
Data Hold		✓
The reference junction compensation		✓
°C / ° F conversion		✓
Communication		The isolation of the USB interface and PC
Online communication		Support ASCII , can realize remote
Display type		LCD
Backlight		✓
Power Supply		220V±10%AC or 110V±10%AC , 50Hz or 60Hz
Power		About 3W
Safety		CAT II 300V
Electromagnetic compatibility		IEC61326-1, Group1 , Class B
Size		245 × 220 × 82 (mmdgt)
Weight		About 2kg
Standard Quantity Per Carton		6pcs
Standard Carton Measurement		585mm*505mm*323mm
Standard Carton Gross Weight		13.6Kg



8246A/8246B

Accuracy: 0.025%
Display words: 55000

Project		8246A	8246B
DC voltage	Range	50mV/500mV/5V/50V/500V/1000V	50mV/500mV/5V/50V/500V/1000V
	Basic accuracy	$\pm (0.025\% + 5\text{dgt})$	$\pm (0.025\% + 5\text{dgt})$
AC voltage	Range	50mV/500mV/5V/50V/500V/750V	50mV/500mV/5V/50V/500V/750V
	Basic accuracy	$\pm (0.7\% + 30\text{dgt})$	$\pm (0.7\% + 30\text{dgt})$
DC current	Range	500uA/5000uA/50mA/500mA/5A/10A	500uA/5000uA/50mA/500mA/5A/10A
	Basic accuracy	$\pm (0.15\% + 10\text{dgt})$	$\pm (0.15\% + 10\text{dgt})$
AC current	Range	500uA/5000uA/50mA/500mA/5A/10A	500uA/5000uA/50mA/500mA/5A/10A
	Basic accuracy	$\pm (0.8\% + 30\text{dgt})$	$\pm (0.8\% + 30\text{dgt})$
Resistance	Range	500Ω/5kΩ/50kΩ/500kΩ /5MΩ/50MΩ	500Ω/5kΩ/50kΩ/500kΩ /5MΩ/50MΩ
	Basic accuracy	$\pm (0.05\% + 5\text{dgt})$	$\pm (0.05\% + 5\text{dgt})$
Capacitance	Range	10nF/100nF/1000nF/10uF/100uF /1000uF/10mF/100mF	10nF/100nF/1000nF/10uF/100uF /1000uF/10mF/100mF
	Basic accuracy	$\pm (5\% + 5\text{dgt})$	$\pm (5\% + 5\text{dgt})$
Frequency	Range	10Hz ~ 100kHz	10Hz ~ 100kHz
	Basic accuracy	$\pm (0.02\% + 4\text{dgt})$	$\pm (0.02\% + 4\text{dgt})$
Thermocouple	Range	K: -200.0°C ~ 1372.0°C	K: -200.0°C ~ 1372.0°C
	Basic accuracy	$\pm (0.5\% + 0.5^\circ\text{C})$	$\pm (0.5\% + 0.5^\circ\text{C})$
RTD	Range	Pt100 : -200.0°C ~ 800.0°C	Pt100 : -200.0°C ~ 800.0°C
	Basic accuracy	$\pm (0.5\% + 0.5^\circ\text{C})$	$\pm (0.5\% + 0.5^\circ\text{C})$
Display words		55000	55000
The measurement rate		Quick: 20 times / sec Slow: 5 times / sec	Quick: 20 times / sec Slow: 5 times / sec
Automatic / manual range		✓	✓
True RMS		✓	✓
Bandwidth		50kHz	1kHz
The duty ratio		10%~90%	10%~90%
Diode test		✓	✓
Continuity beeper		✓	✓
Four wire resistance measurements		✓	✓
dBm		✓	✓
MAX/MIN/AVG		✓	✓
Relative value measurement		✓	✓
Data Hold		✓	✓
The reference junction compensation		✓	✓
°C / ° F conversion		✓	✓
Change rate		✓	✓
Communication interface		Configurable isolation USB, isolated RS232 communication	
Online communication		Support ASCII can realize remote control instrument by the device driver software. The powerful function, friendly man-machine interface, the user can conveniently obtain multiple data parameters of instrument, and the data storage, processing, management, access to data is displayed in the graphical or tabular form.	
Auto power-off		✓	✓
Display type		VFD	VFD
Power Supply		220V±10%AC or 110V±10%AC , 50Hz	220V±10%AC or 110V±10%AC , 50Hz
Power		About 3W	About 3W
Safety		CAT II 300V	CAT II 300V
Electromagnetic compatibility		IEC61326-1, Group1 , Class B	IEC61326-1, Group1 , Class B
Size		315*260*110 (mmdgt)	315*260*110 (mmdgt)
Weight		About 5kg	About 5kg
Standard Quantity Per Carton		4pcs	4pcs
Standard Carton Measurement		650mm*390mm*370mm	650mm*390mm*370mm
Standard Carton Gross Weight		21 Kg	21 Kg



8265

Technical data

Project	8265				
DC voltage	<table> <tr> <td>Range</td><td>100mV/1V/10V/100V/1000V</td></tr> <tr> <td>Basic accuracy</td><td>±(0.0035+0.0005%)</td></tr> </table>	Range	100mV/1V/10V/100V/1000V	Basic accuracy	±(0.0035+0.0005%)
Range	100mV/1V/10V/100V/1000V				
Basic accuracy	±(0.0035+0.0005%)				
AC voltage	<table> <tr> <td>Range</td><td>100mV/1V/10V/100V/750V</td></tr> <tr> <td>Basic accuracy</td><td>±(0.05%+0.03%)</td></tr> </table>	Range	100mV/1V/10V/100V/750V	Basic accuracy	±(0.05%+0.03%)
Range	100mV/1V/10V/100V/750V				
Basic accuracy	±(0.05%+0.03%)				
DC current	<table> <tr> <td>Range</td><td>10mA/100mA/1A/10A</td></tr> <tr> <td>Basic accuracy</td><td>±(0.015%+0.005%)</td></tr> </table>	Range	10mA/100mA/1A/10A	Basic accuracy	±(0.015%+0.005%)
Range	10mA/100mA/1A/10A				
Basic accuracy	±(0.015%+0.005%)				
AC current	<table> <tr> <td>Range</td><td>10mA/100mA/1A/10A</td></tr> <tr> <td>Basic accuracy</td><td>±(0.05%+0.05%)</td></tr> </table>	Range	10mA/100mA/1A/10A	Basic accuracy	±(0.05%+0.05%)
Range	10mA/100mA/1A/10A				
Basic accuracy	±(0.05%+0.05%)				
Resistance	<table> <tr> <td>Range</td><td>100Ω/1KΩ/10KΩ/100KΩ/1MΩ/10MΩ/100MΩ</td></tr> <tr> <td>Basic accuracy</td><td>±(0.01%+0.001%)</td></tr> </table>	Range	100Ω/1KΩ/10KΩ/100KΩ/1MΩ/10MΩ/100MΩ	Basic accuracy	±(0.01%+0.001%)
Range	100Ω/1KΩ/10KΩ/100KΩ/1MΩ/10MΩ/100MΩ				
Basic accuracy	±(0.01%+0.001%)				
Capacitance	<table> <tr> <td>Range</td><td>10nF/100nF/1000nF/10uF/100uF/1000uF/10mF</td></tr> <tr> <td>Basic accuracy</td><td>±(1%+0.5%)</td></tr> </table>	Range	10nF/100nF/1000nF/10uF/100uF/1000uF/10mF	Basic accuracy	±(1%+0.5%)
Range	10nF/100nF/1000nF/10uF/100uF/1000uF/10mF				
Basic accuracy	±(1%+0.5%)				
Frequency	<table> <tr> <td>Range</td><td>3Hz ~ 100kHz</td></tr> <tr> <td>Basic accuracy</td><td>±0.01%</td></tr> </table>	Range	3Hz ~ 100kHz	Basic accuracy	±0.01%
Range	3Hz ~ 100kHz				
Basic accuracy	±0.01%				
Thermocouple	<table> <tr> <td>Range</td><td>8types(R/S/K/E/J/T/B/N/L/U)</td></tr> <tr> <td>Basic accuracy</td><td>±0.7°C</td></tr> </table>	Range	8types(R/S/K/E/J/T/B/N/L/U)	Basic accuracy	±0.7°C
Range	8types(R/S/K/E/J/T/B/N/L/U)				
Basic accuracy	±0.7°C				
RTD	<table> <tr> <td>Range</td><td>2types(Pt100/PT1000)</td></tr> <tr> <td>Basic accuracy</td><td>±0.7°C</td></tr> </table>	Range	2types(Pt100/PT1000)	Basic accuracy	±0.7°C
Range	2types(Pt100/PT1000)				
Basic accuracy	±0.7°C				
Display words	1000000				
Automatic / manual range	√				
True RMS	√				
Bandwidth	20Hz~100kHz				
Diode test	√				
Continuity beeper	√				
Four wire resistance measurements	√				
dBm	√				
MAX/MIN	√				
Relative value measurement	√				
Data Hold	√				
The reference junction compensation	√				
°C/°F conversion	√				
Input impedance	100mV/1V/10V: 10MΩ or >10GΩ 100V/1000V: 10MΩ				
Communication interface	Configurable isolation USB, isolated RS232 communication				
Online communication	Support the SCPI command, can realize remote control instrument by the device driver software. The powerful function, friendly man-machine interface, the user can conveniently obtain multiple data parameters of instrument, and the data storage, processing, management, access to data is displayed in the graphical or tabular form.				
Auto power-off	√				
Display type	VFD				
Power Supply	250V±10%AC, 50Hz or 60Hz				
Power	About 15W				
Safety	CAT. III, 1000V; CAT. IV, 600V				
Electromagnetic compatibility	IEC61010.1-2001				
Size	245 × 220 × 82 (mm)				
Weight	About 5100g				
Standard Quantity Per Carton	4pcs				
Standard Carton Measurement	650mm×410mm×365mm				
Standard Carton Gross Weight	21.6kg				



71A/71B/71C

Technical data

Project	71A	71B	71C
SOURCE"	DC millivolt	110mV	110mV
	Basic accuracy	0.2%+4dgt	0.2%+4dgt
	Resolution	100uV	100uV
	DC voltage	10V	10V
	Basic accuracy	0.2%+4dgt	0.2%+4dgt
	Resolution	10mV	10mV
	DC current	0~22mA	0~22mA
	Basic accuracy	0.2%+4	0.2%+4
	Resolution	0.01mA	0.01mA
	Sink current	0~22mA	0~22mA
	Basic accuracy	0.2%+4	0.2%+4
	Resolution	0.01mA	0.01mA
MEASURE	External power supply	5 ~ 28V	5 ~ 28V
	Thermocouple	Range	8 types(R/S/K/E/J/T/B/N)
	Basic accuracy	0.2%+4	0.2%+4
	Resolution	1°C	1°C
	DC millivolt	Range	-10~110mV
	Basic accuracy	0.2%+4	0.2%+4
	Resolution	100uV	100uV
	DC voltage	Range	-5~30V
	Basic accuracy	0.2%+4	0.2%+4
	Resolution	10mV	10mV
	DC current	Range	0~22mA
	Basic accuracy	0.2%+4	0.2%+4
Other functions	Loop power	Range	24V
	Basic accuracy	10%	10%
	Limit current	25mA	25mA
	Thermocouple	Range	8 types(R/S/K/E/J/T/B/N)
	Basic accuracy	0.2%+4	0.2%+4
	Resolution	1°C	1°C
	Manual Step Output	√	√
	Automatic Waveform Output	√	√
	Flash Light	√	√
	Magnetic suspension cord (Optional accessories)	√	√
	Display	LCD	LCD
	Power supply	4×1.5V AAA alkaline battery	4×1.5V AAA alkaline battery
Standard	Size	151(L)×75(W)×42(D)mm	151(L)×75(W)×42(D)mm
	Weight	0.5KG	0.5KG
	Standard Quantity Per Carton	12pcs	12pcs
	Standard Carton Measurement	430×350×225mm	430×350×225mm
Standard Carton Gross Weight		7.2KG	7.2KG

* Notice: table range for the maximum range, precision is the highest accuracy (reading%), the resolution is the highest resolution.



3801M

3803M

3824M

Product Basic Function

- ◆ It has key lock function to prevent misoperation;
- ◆ Provide CC, CV, CR, CP and CC+CV, CR+CV multiple basic measurement modes; Provide professional battery test;
- ◆ Provide professional LED test;
- ◆ Dynamic test mode, which can test the dynamic output performance of powersupply;
- ◆ Scanning test mode, which can test the continuity of power output within ascertain range;
- ◆ List mode, which can simulate various load state changes;
- ◆ Short circuit test, used to simulate load short circuit;
- ◆ Support external trigger input;
- ◆ Built in buzzer alarm;
- ◆ Keep data storage function in case of power failure;
- ◆ Remote operation can be carried out through USB, RS-232 (optional) or 485(optional) interfaces;
- ◆ It has overvoltage, overcurrent, overpower and over temperature protection functions, and can flexibly set overvoltage and Over current parameter, which can effectively protect the load;
- ◆ With intelligent fan speed control function, it can effectively reduce fan noise during operation;
- ◆ It has input polarity reverse connection prompt.
- ◆ Power supply voltage: 100Vac±10%~240Vac±10%, 50/60Hz
- ◆ Display: 2.8-inch TFT LCD screen with resolution of 320×240
- ◆ Operating temperature: 0℃ to 40℃
- ◆ Storage temperature: -10℃ to 70℃
- ◆ Relative humidity: < 80%
- ◆ Interface: standard USB, optional RS232(or 485)
- ◆ Size: 90mm×190mm×300mm (width × height × depth)

Technical indicators

Basic function		3801M	3803M	3824M
Rated input	Power	400W	400W	Dual channel, 200W*2
	Input voltage	0-150V	0-500V	0-150V
	Input current	0-40A	0-15A	0-40A(20A/channel)
Constant voltage	Range	0.1~19.999V 0.1~150.00V	0.1~19.999V 0.1~500.00V	0.1~19.999V 0.1~150.00V
	Resolving	1mV, 10mV		
	Accuracy	±(0.05%+0.02%FS)		
Constant current	Range	0~3.000A 0~40.00A	0~3.000A 0~15.00A	0~3.000A 0~20.00A
	Resolving	1mA, 10mA		
	Accuracy	±(0.05%+0.05%FS)		
Constant resistance	Range	0.05Ω~1 kΩ, 1 kΩ~4.5kΩ		
	Resolving	10mΩ, 100mΩ		
	Accuracy	±(0.1%+0.5%FS)		
Constant power	Range	0~400W		0~200W
	Resolving	10mW		
	Accuracy	±(0.1%+0.5%FS)		
Dynamic test function	Pattern	CC, CV		
	T1&T2	50ms~60s		
Battery test function	Discharge	CC, CR		
	Max discharge	9999Ah		
	Resolving	1mA, 10mA, 10mΩ, 100mΩ		

Measuring range		3801M	3803M	3824M
Voltage read back value	Range	0~19.999V 0~150.00V	0~19.999V 0~500.00V	0~19.999V 0~150.00V
	Resolving	1mV,10mV		
	Accuracy	±(0.05%+0.1%FS)		
Current read back value	Range	0~3.000A 0~40.00A	0~3.000A 0~15.00A	0~3.000A 0~20.00A
	Resolving	1mA,10mA		
	Accuracy	±(0.05%+0.1%FS)		
Power read back value	Range	0~400W		0~200W
	Resolving	10mW		
	Accuracy	±(0.1%+0.5%FS)		
Scope of protection				
Overvoltage protection		Greater than 21V or 155V	Greater than 21V or 510V	Greater than 21V or 155V
Overcurrent protection		Greater than 3.1A or 42A	Greater than 3.1A or 16A	Greater than 3.1A or 22A
Overpower protection		410W		210W
Over temperature protection		85℃		
Basic parameters				
Power Supply		100Vac±10%~240Vac±10%, 50/60Hz		
Display Size		2.8 inch TFT LCD screen, Resolving power320*240		
Body color		Pale		
Body weight		About 3.8KG		
Body size		90mm × 190mm × 300mm		
Standard accessories		Power cord, fuse * 2, manual, certificate		



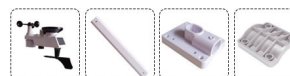
Technical indicators

Special function	0366 RF	0366 wifi
WiFi cloud data	NO	YES
Outdoor temperature range	-40°C to +60°C/°F	
Indoor temperature range	0°C to +60°C/°F	
Temperature accuracy	±1°C	
Humidity range and accuracy	10% to 99% (1% resolution); accuracy: ±5%	
Air pressure range and accuracy	300 to 1100hpa; ±3hpa	
Rainfall display	0 – 9999mm	
Resolution	0.3mm (< 1000mm) 1mm (> 1000mm)	
Rainfall accuracy	< 15 mm: ± 1 mm 15 mm to 9999 mm: ±7%	
Wind speed range and accuracy	0~50m/s 2 m/s ~ 10 m/s: ±3 m/s > 10 m/s: ±10%	
Wind direction accuracy	8 points	
Sampling time	60s	
Wifi standard	802.11 b/g/n	
Wireless frequency	2.4GHz	
WIFI transmission distance	20m	
Power supply: (shipping without battery)		
Receiver	AA batteries or 5.9V/500mA power adapter	
Transmitter	AA alkaline batteries	
Product Size		
Frame size (LxHxW)	165×135×18mm	
LCD size (LxW)	130×80mm	
Product gross weight	2.0KG	

0310

Launcher

Integrated Outdoor Transmitter
(330*150*280mm)
Mounting Pole:
(76*76*25mm)
Foot Mounting (with pole insert):
(84*152*216mm)
Mounting Bracket Back Plate:
(76*102*38mm)



Fastened to the Mounting Pole Bracket

Fixed on the wall

Technical parameter

Measurement	Range	Accuracy	Resolution
Indoor Temperature	0 to 60 °C	±1 °C	0.1 °C
Outdoor Temperature	-40 to 60 °C	±1 °C	0.1 °C
Indoor Humidity	10 to 99 %	±5% (only between 20 to 90%)	1 %
Outdoor Humidity	10 to 99 %	±5% (only between 20 to 90%)	1 %
UV Index	1 to 15+	±1	±1
Sunlight	0 to 200klux	±15%	±15%
Rain	0 to 9999mm	<15mm:±1 mm ; >15mm:±7%	1mm
Wind Direction	0 - 360 °	±10°(16 point compass)	±1°
Wind Speed	0 to 50 m/s	2 m/s ~ 10 m/s: ±3m/s, 10m/s ~ 50 m/s: ±10% (whichever is greater)	0.1 m/s
Barometric Pressure	300 to 1100hpa	±3 hpa	0.1 hpa
Wireless Specifications			
• Line of sight wireless transmission (in open air): 100m.			
• Frequency: 433 MHz			
• Integrated Outdoor transmitter interval: 16seconds			
Power Consumption			
• Base station : 3 x AAA 1.5V Alkaline or Lithium batteries (not included)			
• Adaptor: 6V~ 500mA (included)			
• Integrated Outdoor Transmitter: 3xAA alkaline batteries or Lithium			
WiFi Specifications			
1. WIFI Standard: 802.11 b/g/n			
2. WiFi Console RF Frequency: 2.4 GHz			
3. Setup User Interface (UI) support setup device: Build-in WiFi with WAP mode smart device, including laptops, computers, smart phones and smart pads.			
4. Recommend web browser for setup UI: Web browser support of HTML 5			
5. Line of sight WiFi RF transmission (in open air): 20meter (80 feet)batteries (not included)			



9-IN-1 INTEGRATED OUTDOOR SENSOR

0345



Weather forecast



Temperature



Humidity



Air pressure



Wind speed



Illuminance/UV



Rain gauge



Moon phase



Alarm clock



Technical indicators

Measurement	Range	Accuracy	Resolution
Indoor Temperature	0 to 60°C (32 to 140°F)	±1°C (±2°F)	0.1°C (°F)
Outdoor Temperature	-40 to 60°C (-40 to 140°F)	±1°C (±2°F)	0.1°C (°F)
Indoor Humidity	10 to 99%	±5% (only guaranteed between 20 to 90%)	1%
Outdoor Humidity	10 to 99%	±5% (only guaranteed between 20 to 90%)	1%
Rain	0 to 9999mm	<15mm: ±1mm, 15mm to 9999mm: ±7%	<1000mm (0.3mm) >1000mm (1mm)
Wind Direction	0 - 360°	±10° (8 point compass)	±1° (8 point compass)
Wind Speed	0 to 50m/s	2m/s~10m/s: ±0.3m/s, 10m/s~50m/s: ±10% (whichever is greater)	0.1m/s
Barometric Pressure	300 to 1100 hpa	±3hpa	0.1hpa
Wireless Specifications			
Wireless Transmit Range (in open air):	330ft (100m)		
Frequency:	433MHz		
Integrated Outdoor Sensor Data Update Period:	16s		
Power Consumption			
Display Console	3×AAA 1.5V Alkaline or Lithium batteries(not included)		
Integrated	3×AA alkaline batteries or Lithium batteries(not included), the batteries provide backup power when there is limited solar energy. Note: Solar panel doesn't charge the battery and it is an auxiliary power supply		
Adapter	5.9V~500mA (included)		
Battery life	Minimum 12 months for sensors (use lithium batteries in cold weather climates less than -20°C (-4°F))		

0360



PACKAGING ACCESSORIES

- 1—Display console
- 2—Integrated outdoor transmitter
- 3—Installation accessories
- 4—Power adapter
- 5—Product Manual
- 6—Screwdriver
- 7—Carton packaging



Technical indicators

Measurement	Range	Accuracy	Resolution
Indoor Temperature	0 to 60 °C (32 to 140 °F)	±1 °C (±2 °F)	0.1 °C (°F)
Outdoor Temperature	-40 to 60 °C (-40 to 140 °F)	±1 °C (±2 °F)	0.1 °C (°F)
Indoor Humidity	10 to 99%	±5%(only guaranteed between 20 to 90%)	1%
Outdoor Humidity	10 to 99%	±5%(only guaranteed between 20 to 90%)	1%
Rain	0 to 9999mm	<15mm:±1mm, 15mm to 9999mm:±7%	<1000mm(0,3mm)>1000mm(1mm)
Wind Direction	0 - 360°	±10°(8 point compass)	±1°(8 point compass)
Wind Speed	0 to 50m/s	2m/s~10m/s:±0.3m/s, 10m/s~50m/s:±10% (whichever is greater)	0.1m/s
Barometric Presure	300 to 1100 hpa	±3hpa	0.1hpa
UV Index	1 to 15+	±1	±1
Sunlight	0 to 200klux	±15%	±15%
Wireless Specifications			
Wireless Transmit Range(in open air):		330ft(100m)	
Frequency:		433MHz	
Integrated Outdoor Sensor Data Updata Period:		16s	
Power Consumption			
Display Console	3×AAA 1.5V Alkaline or Lithium batteries(not included)		
Integrated	3×AA alkaline batteries or Lithium batteries(not included), the batteries provide backup power when there is limited solar energy. Note:Solar panel doesn't charge the battery and it is an auxiliary power supply		
Outdoor Sensor	limited solar energy. Note:Solar panel doesn't charge the battery and it is an auxiliary power supply		
Adapter	5.9V~500mA(included)		
Battery life	Minimum 12 months for sensors(use lithium batteries in cold weather climates less than -20 °C (-4 °F)		



CALCT temperature probe

- Type: A000019
- applicable products : process calibrations of VC25, VC11+, VC14+ of this Company
- function : can measure environmental temperature and capture cold-end compensation temperature faster and more accurate.
- accuracy : ± 0.2 degree
- feature : MINI_USB interface (connected with the meter)
- weight : about 17g



CA communication convertor module

- type: A000022
- applicable products: the calibration meters of VC25, VC11+, VC14+, VC15+ of this company
- functions: to fulfill the data communication between the meter and the PC;
- features: MINI_USB plug in the end(connected with meter), standard USB plug in the other end (connected with PC)
- weight : about 50g



CA pressure module convertor

- type: A000018
- applicable products: VC25, VC15+ calibration meters of this company
- functions: to finish pressure measurement by connecting the meter and the pressure module
- features: MINI_USB plug in the end(connected with meter), standard LEMO USB plug in the other end (connected with PC)
- weight : about 20g



USB serial communication line

- Standard USB interface
- A type 4P RP-SMA Male/ MINI
- USB A type 5P insert
- Type: H100000

USB serial communication line

- Standard USB interface
- USB A type 4P RP-SMA Male/
- USB B type 4P insert/ with shielding layer
- type: H100000



Testing probe

- Product catalogue: General accessories
- Standard banana-typed interface adapted to varieties of probes
- Bar length: 115mm ; length of valid needles: 18mm
- CATIII 1000V 16A
- type : H000000



Testing probe

- Product catalogue: General accessories
- Bar length: 145mm ; line length:1000mm ; length of valid needles: 18mm
- CATIII 1000V 20A
- type : H000003



Testing probe

- Product catalogue: General accessories
- Standard banana-typed interface adapted to varieties of probes
- Bar length: 145mm ; line length:1000mm ; length of valid needles: 18mm
- CATIII 1000V 10A
- type : H000005



Testing probe

- Product catalogue: General accessories
- Bar length: 145mm ; line length:1000mm ; length of valid needles: 18mm
- CATIII 1000V 10A
- type : H000013





Alligator clipper test lead

- alligator clipper in one end
- 4mm banana plug in the other end (with insulation pipe sleeve)
- highly flexible connective leads to meet different needs of tests
- comply with criterion: EN61010, IEC61010, DIN VDE0411
- type: H000010B

rated voltage	CATIII 600V
rated current	10A
standard lead	1000mm;PVC



Alligator clipper test lead

- alligator clipper in one end
- two 4mm banana plugs in the other end (with insulation pipe sleeve)
- highly flexible connective leads to meet different needs of tests
- comply with criterion: EN61010, IEC61010, DIN VDE0411
- type: H000011

rated voltage	CATIII 600V
rated current	10A
standard lead	1000mm;PVC



Alligator clipper test lead

- alligator clipper in one end
- 4mm banana plug in the other end (with insulation pipe sleeve)
- highly flexible connective leads to meet different needs of tests
- comply with criterion: EN61010, IEC61010, DIN VDE0411
- type: H000010G

rated voltage	CATIII 600V
rated current	10A
standard lead	1000mm;PVC

Main indicator of adaptor

type: P070000

rated voltage	15V
output range	15V±5%
current value	0A~2.0A

Main indicator of lined adaptor

type: P070003

input voltage/ frequency	220V/50Hz
no-load current	≤45mA
input power	5W
output DC no-load voltage	5V±5%
load current	1000mA
output DC load voltage	4.7V±0.5%

Alligator clipper

- Product catalogue: alligator clipper
- Insulation direct plug-in alligator clipper
- Alligator clipper: 80*36mm
- Maximum dehiscence: 20mm
- CATIII 1000V 10A
- Type: H010000

Industrial test lead

- Product catalogue: general accessories
- Length of probe bar: 136mm, length of probe line: 1000mm
- Valid length of probe needle :18mm
- CATIII 1000V 10A
- Type: H000001

Industrial test lead

- Product catalogue: general accessories
- Standard banana head to adapt to varieties of probes to make test easy
- Banana head: 56mm, length of probe line: 1000mm
- CATIII 1000V 10A
- Type: H000002

Hooked test probe

- Product catalogue: general accessories
- With safe handle and smart, scalable, exploratory trench with compression spring to make test easy
- Standard banana head to adapt to varieties of probes to make test easy
- CATIII 1000V 10A
- Type: H000004

TC converter

- Product catalogue: TC converter
- Adapted conversion test of all kinds of graduations
- Type: H200000

Pressure module communication cable

- type: A000046
- applicable products: the calibration meters of VICTOR 25, VICTOR15+ of this company this company
- functions: to fulfill the data communication between the meter and the pressure module
- features: Binder 5-pole female to LEMO 5_pole male
- length : about 60mm

