

## Professional Digital Multimeters

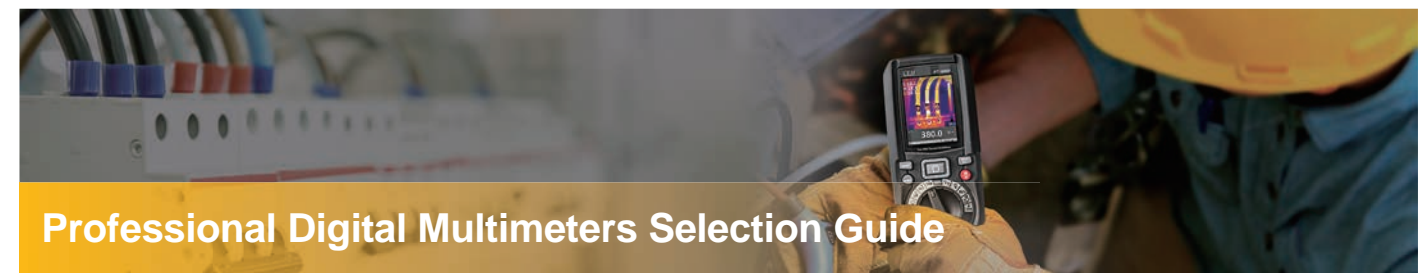
Digital multimeter (DMMs) is a professional electrical engineers or electrical maintenance technicians essential tools, can help you quickly and accurately diagnose and troubleshoot all kinds of circuit problems. Every industrial instrument has been tested to the extreme: drop, shock, humidity, you name it. Each digital multimeter gives you what you need: accurate measurement; Consistent, reliable performance; Pay attention to safety; And the strongest assurance



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



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## Professional Digital Multimeters Selection Guide

### Professional True RMS Industrial Multimeter with InfraRed Thermal Imager



DT-9889 is a professional True RMS digital multimeter and built-in 80 x 80 thermal imager ideal for commercial electricians, automation, electronics, field service and HVAC work etc. It can visually find the precise location of an electrical problem without direct contact and pinpoint hot spots faster, safer, and more efficiently.

Thermview+ software & cloud sever support the Bluetooth function, the measured data can easily transferred to customers' smartphone for edit and storage.



### Professional True RMS Multimeter Built-in Oscilloscope

DT-9989 is True RMS multimeter + Oscilloscope + Data logger + Low pass filter + Trend Capture feature, all in one! CEM DT-9989 professional multi-purpose instrument is outgoing right-hand product for engineers. It can quickly solve complex problems in electronics, factory automation, power distribution, electronic engineering equipment and etc.

TFT color LCD display + IP67 dustproof and waterproof + Bluetooth interface to smartphone/ PC bring you a better experience.



### Heavy Duty True RMS Industrial Multimeter with Backlight

DT-965BT with automatic backlight for LCD, buttons and knob switch, it is the perfect multimeter for weak light or night use. Protection against water rating IP67 and plus the strong flashlight, it is more safety and reliable.



### 50,000 counts True RMS Industrial Multimeter with Bluetooth

DT-989 Heavy duty True RMS industrial digital multimeter with 50,000 counts TFT color LCD display, providing fast A/D converting sampling time, high accuracy, built-in datalogging and trend capture features. Offering low pass filter help user accurately analyze non-traditional sine waves and noisy signals. It is easy to find and solve the electrical problems.

It features Bluetooth technology to connect a compatible smartphone for remote viewing and sharing, software Meterbox Pro can store and analyze the data.



### Heavy Duty True RMS Industrial Multimeters with VFD Measurement

DT-9560/9561/9562/9663H heavy duty industrial digital multimeter with VFD measurement, the advanced variable frequency drive filtering to help user accurately analyze non-traditional sine waves and noisy signals. It also offers comprehensive features like  $\mu$ A current measurement capability and durable design for quick and safe troubleshooting of electrical, electronic, and HVAC/R systems. It can assess temperatures up to 1000°C (1832°F) with the Type-K thermocouple.

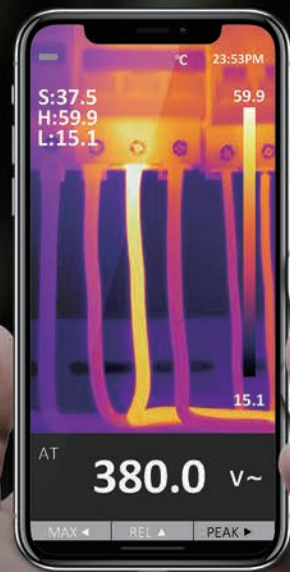
Protection against water rating IP67 is more safety and reliable.

# Professional True RMS Industrial Multimeter

Built-in InfraRed Thermal Imager design quickly identifies hot spots without contact



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- Support **Images** capture capabilities
- Support **MicroSD** memory card extension
- Data Logger
- Date/Time** setup controls



- TFT color LCD display
- PC Calibration

- IP65 dust and water proof
- True RMS

9889 Professional True RMS Industrial Digital Multimeter built-in Thermal Imager design, providing fast A/D converting sampling time, high accuracy, datalogging and Trend Capture features. Advanced system platform permits smart multifunctions such as updating software on line and PC calibration etc.

Thermview+ software & cloud server support to transfer the measured data to the customer's smartphone for edit and storage.

### Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

### Features

- Built-in Thermal Imager design quickly identifies hot spots without contact
- 240 x 320 2.8" TFT color LCD display
- 6000 Counts large LCD display
- Logging function with Trend Capture for easy review of logged data
- Low pass filter for accurate measurement of variable frequency drive (VFD) signals
- Long work time with Li-ion battery
- AC, AC+DC true RMS measurements & 1kHz ACV, ACA bandwidth
- 3000A Flexible Coil Current Measurements
- A/D convert fast sampling time: 10 Times/sec.
- Peak capture (records transients as fast as 500µs)
- Min/Max/Average with Time stamp (records signal fluctuations)
- MicroSD memory card
- Support capture screen capabilities
- 80x80 Infrared resolution
- Bluetooth BLE instant share function
- Easy to view and analyze images quickly
- Non-Contact Voltage detection (VAC:100V~1000V)

### Specifications

Thermal Imager	
IR resolution	80x80 pixels
Field of View (FOV)	21° x 21°
Thermal sensitivity/NETD	< 0.1°C@ +30°C(+86°F)/100mK
Image frequency	50Hz
Object temperature range	-20 to 260°C (-4 to 500°F)
Focus mode	Focus free
Focal length	7.5mm
Spectral range	8-14 µm
Color palettes	Iron/Rainbow/Grey/Grey Inverted
Accuracy	±3°C (±5.4°F) or ±3% of reading (Environment temperature 10°C-35°C, object temperature >0°C. )

True RMS Multimeter Functions			
Function	Max. Range	Max. Resolution	Best Accuracy
Voltage DC	1000V	100mV	±(0.09% + 5)
Voltage AC	1000V	100mV	±(0.8% + 5)
Current DC	10A	0.1µA	±(0.9% + 5)
Current AC	10A	0.1µA	±(1.2% + 5)
Resistance	60MΩ	0.1Ω	±(0.5% + 5)
Capacitance	6000µF	0.01nF	±(1.2% + 8)
Frequency	10MHz	0.01Hz	±(0.09% + 5)
Diode and Continuity	Yes		
PC Interface	Bluetooth		
Power Supply	8 hours Li-ion rechargeable battery; AC Adaptor/charger		

Size(HxWxD): 195mm x 80mm x 58mm Weight: 540g

### Accessories:

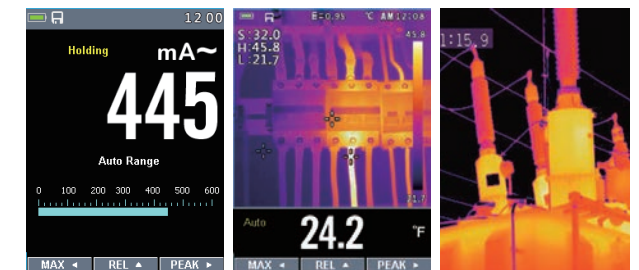
Test leads, Li-ion batteries, Type K temperature probe, Software, gift box with carrying case.



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Model 9889



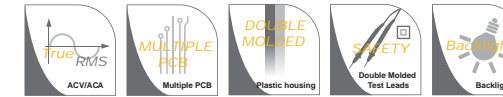
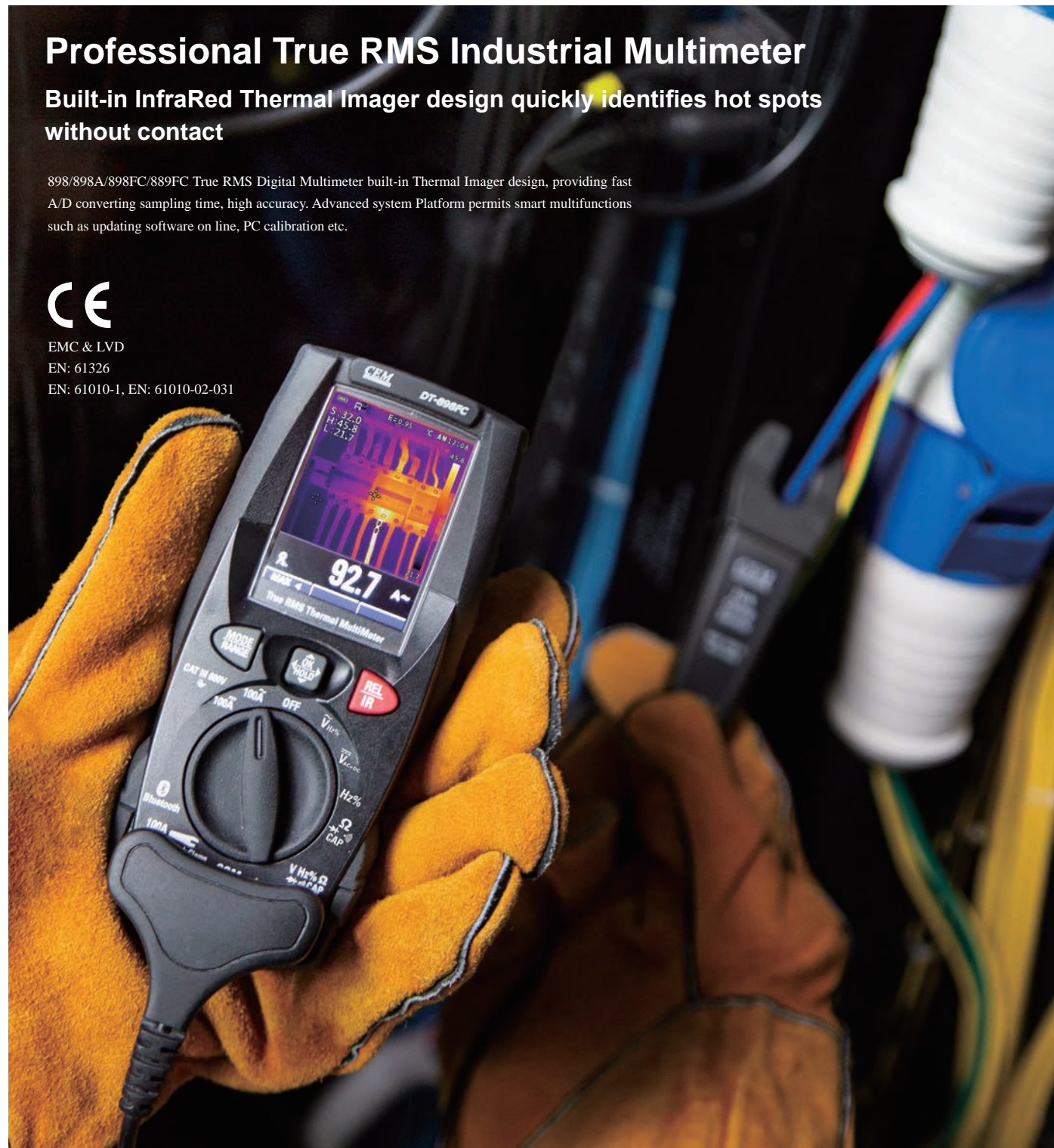
**IP65 Dust and Water Proof.**  
2m drop protection, IP65 dust and waterproof.

# Professional True RMS Industrial Multimeter

## Built-in InfraRed Thermal Imager design quickly identifies hot spots without contact

898/898A/898FC/889FC True RMS Digital Multimeter built-in Thermal Imager design, providing fast A/D converting sampling time, high accuracy. Advanced system Platform permits smart multifunctions such as updating software on line, PC calibration etc.

**CE**  
EMC & LVD  
EN: 61326  
EN: 61010-1, EN: 61010-02-031



Model 898

**CE**

EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032,  
EN: 61010-02-033



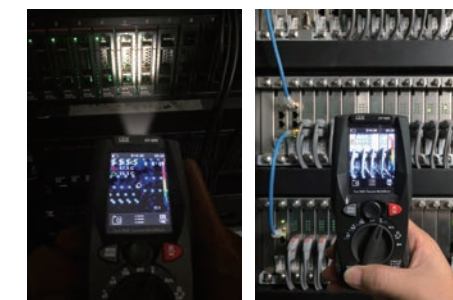
Model 898A

Bluetooth



Model 898FC/889FC

Bluetooth



Full visible light (889FC)

Size(HxWxD): 148mm x 68mm x 48mm  
Weight: 348g

Accessories:  
Test leads, Li-ion battery, Software, gift box with carrying case.

### Features

	898	898A	898FC	889FC
0.47" (12mm) Fork clamp sensor for AC/DC 100A current measurement			*	*
Bluetooth interface		*	*	*
4000 Counts large LCD display with True RMS measurements & flashlight	*	*	*	*
Built-in Thermal Imager design quickly identifies hot spots without contact	*	*	*	*
Logging function with Trend Capture for easy review of logged data (100,000 dot measurements)	*	*	*	*
AC, AC+DC True RMS measurement & 1kHz ACV/ACA bandwidth	*	*	*	*
240 x 320 2.4" TFT color LCD display	*	*	*	*
Built-in 0.3Megapixels visible light digital camera				*
A/D convert fast sampling time: 3 Times/sec.	*	*	*	*
Peak capture (records transients as fast as 500µs) & Data Hold	*	*	*	*
Min/Max with Time stamp (records signal fluctuations)	*	*	*	*
CAT III 600V Category safety rating	CAT III 300V CAT II 600V	*	*	*

### Specifications

	898	898A	898FC	889FC
<b>Thermal Imager</b>				
IR resolution		80x80 pixels		32x32 pixels
Field of View (FOV)	17° x 17°	*		40°x40°
Thermal sensitivity/NETD	< 0.08°C /80mK	*		*
Image frequency	50Hz	*		9Hz
Object temperature range	-20 to 260°C (-4 to 500°F)	*		-20 to 300°C (-4 to 572°F)
Spectral range	8-14 µm			
Color palettes	Iron/Rainbow/Grey/Grey Inverted			
Accuracy	±2°C (±3.6°F) or ±2% of reading			

### True RMS Multimeter Functions

Mode		898	898A	898FC	889FC
Function	Max Range				
	Basic Accuracy				
Voltage DC	600V	±0.5%	*	*	*
Voltage AC	600V	±1.0%	*	*	*
Current DC	10A	±1.5%	*	*	*
Fork clamp DC current	100A	±3.0%	*	*	*
Current AC	10A	±2.0%	*	*	*
Fork clamp AC current	100A	±3.0%	*	*	*
Resistance	40MΩ	±1.0%	*	*	*
Capacitance	4000µF	±3.0%	*	*	*
Frequency	10MHz	±1.0%	*	*	*
Duty Cycle	99.9%	±1.2%	*	*	*
Diode Check & Continuity Test		*	*	*	*

## Professional True RMS Industrial Multimeter / Oscilloscope with TFT color LCD display

9989 Professional True RMS Industrial Digital Multimeter with oscilloscope functions and TFT color LCD display, providing fast A/D converting sampling time, high accuracy, built-in datalogging and Trend Capture features.

Meterbox pro software & cloud server support to transfer the measured data to customer's smartphone for edit and storage.



Resistance measurement : 50MΩ  
Capacitance measurement : 10mF



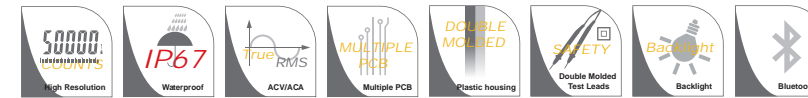
Type K thermocouple temperature function



Built-in digital Oscilloscope and FFT functions



IP67 dust and water proof



- IP67 dust and water proof
- True RMS

- TFT color LCD display
- 50000 counts
- PC Calibration

### Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

### Features

- 50,000 counts 320 x 240 TFT color LCD display
- 20MHz bandwidth and 50ms/s realtime sample rate
- Logging function with trend capture and over 10,000 data logging
- Free software to calibrate accuracy
- 100kHz bandwidth (voltage/current)
- AC, AC+DC True RMS measurements
- 0.025% DCV accuracy with fully PC calibration
- Save measurements, records events and trends
- 20 times/sec. A/D convert fast sampling time
- Peak capture (records transients as fast as 250µs)
- Max/Min/Avg with time stamp (records signal fluctuation)
- Motor winding and low ohm (50Ω) measurement range
- Low pass filter
- Bluetooth interface to smartphone / PC

### Specifications

#### Oscilloscope Functions

Display Size	3.5" color LCD; 320 x 240 pixels
Bandwidth	10MHz
Real Time Sample Rate	50MS/s
Risetime	10ns
Channel	1
Vertical Sensitivity	50mV/div to 200V/div
Vertical Resolution	8 bits
Trigger Mode	Free Run, falling edge, rising edge
Trigger Source	Internal
Trigger Coupling	AC/DC
Input Impedance	1MΩ/15pF
Max Input Volatage	1000Vp-p
Cursor Measurement	Voltage and time/ Frequency

#### True RMS Multimeter Functions

Function	Max	Max.resolution	Accuracy
Voltage DC	1000V	1µV	±(0.025%+5)
Voltage AC	1000V	1µV	±(0.3%+25)
Current DC	10A	0.01µA	±(0.15%+2)
Current AC	10A	0.01µA	±(0.6%+5)
Temperature	-50°C to 1000°C	0.1°C	±(1.0%+2.5°C)
Resistance	50MΩ	0.01Ω	±(0.05%+2)
Capacitance	10mF	0.001nF	±(2.0%+40)
Frequency	10MHz	0.01Hz	±(0.01%+10)
Diode & Continuity	Yes		
Bluetooth Interface	Smartphone/PC		
Power Supply	6 hours Li-ion rechargeable battery; AC Adaptor		

Size(HxWxD): 220mm x 96mm x 60mm Weight: 631g

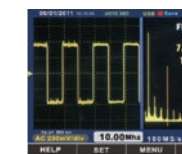
Accessories: Test leads, Li-ion batteries, Type K temperature probe, Bluetooth and Software, Gift box with carrying case.



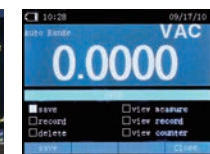
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10MHz Oscilloscope Function



Selectable Multifunction



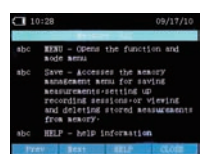
Trend Capture Function



High Resolution & Accuracy



Fast Response Time



Help Menu

### Bluetooth interface to smartphone /PC

- Remote measurement of voltage, current, resistance, capacitance and other electrical parameter
- Measurement data can be transmitted to smart phones via Bluetooth and visually analyzed and stored
- Users can annotate and save each measurement
- Data can be shared to e-mail and other platforms





- TFT color LCD display
- 50000 counts
- PC Calibration

- IP67 dust and water proof
- True RMS

The 9987 Professional True RMS Industrial Digital Multimeter with TFT color LCD display, providing fast A/D converting sampling time, high accuracy, built-in datalogging and Trend Capture features. It can trace any interrupted problems of the equipments and watch on without person. It is easy to find and solve the problems of the production equipments, providing Bluetooth technology and memorizing the datasheets. It is much safe to measure with double molded plastic housing design and IP67 waterproof.

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

**Features**

- Large 50,000 counts 320 x 240 TFT color LCD display
- Logging function with Trend Capture for easy review of logged data
- Bluetooth interface for easy data transfer & accuracy calibration
- 100kHz bandwidth (voltage/current)
- AC, AC+DC True-RMS measurements
- Record events and trends
- Save measurements
- A/D convert fast sampling time
- Peak capture (records transients as fast as 250µs)
- Min/Max/Average with Time stamp (records signal fluctuations)
- Moto winding and low ohm 50Ω measurement range
- 4-20mA process loop measurements with % reading
- Low pass filter
- IP Rating 67
- Meterbox pro & cloud service

**Specifications**

Function	Maximum	Max, resolution	Accuracy
Voltage DC	1000V	1µV	±(0.025% + 5)
Voltage AC	1000V	1µV	±(0.4% + 40)
Current DC	10A	0.01µA	±(0.15% + 2)
Current AC	10A	0.01µA	±(0.6% + 5)
Temperature	-50°C to 1000°C	0.1°C	±(1.0% + 2.5°C)
Resistance	50MΩ	0.01Ω	±(0.05% + 2)
Capacitance	10mF	0.001nF	±(1.0% + 5)
Frequency	10MHz	0.01Hz	±(0.005% + 1)
Diode and Continuity	Yes		
PC Interface	Bluetooth		
Power Supply	18 hours Li-ion rechargeable battery; AC adaptor/charger		

Size(HxWxD): 220mm x 96mm x 60mm Weight: 631g

**Accessories:**

Test leads, Li-ion batteries, Type K temperature probe, AC adaptor Software, gift box with carrying case.



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EN: 61010-02-033



Model 9987



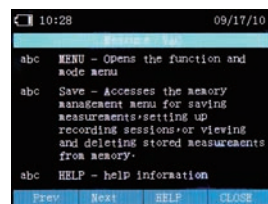
Fast response time



Trend Capture function



High Resolution & Accuracy



Help Menu



- IP67 dust and water proof
- True RMS

- Full Graphics LCD display
- 50000 counts
- PC Calibration

9979 Professional True RMS Industrial Digital Multimeter with 50,000 counts and full Graphics Type LCD display with white backlight, providing fast A/D converting sampling time, high accuracy, built-in datalogging and Trend Capture features. It can monitor any problems of the equipments and watch on without person. It is easy to find and solve the problems of the production equipments, providing Bluetooth technology and memorizing the datasheets. It is much safer to measure with double molded plastic housing design and IP67 waterproof function.

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

**Features**

- Large 50,000 counts, Full Graphics Type LCD display with white backlight. Multiple sets of measurement information can simultaneously be displayed at the same time.
- Voltage (DC/AC), current(DC/AC), resistor, diode, capacitance, frequency and duty cycle measurement
- Ability to record data of signals and review Trend Capture curve, monitoring while you work on other project, it plots measurements as a single line to help detect signal anomalies over time; store up to 10,000 recorded events
- Log multiple sessions or log data continuously over 200 hours.
- Real Time Clock – for automatic time stamping of saved readings
- Expandable meter lets you keep current as new capabilities are added
- Allow to save and name the measurements, and also recall them at any time
- Min/Max/Average with Time Stamp to record signal fluctuations
- Auto zeroing function
- Soft keys, scroll buttons much more secondary functions to access in easily
- TRMS AC voltage and current for accurate measurements on complex signals or non-linear loads.
- Measure up to 10A (20 A for 30 seconds; 10A continuous)
- Peak hold function with calibration mode
- 10MHz Frequency counter and 1MHz duty cycle measurement
- IP67 Waterproof and Auto Power Off
- Bluetooth interface
- Meterbox pro & cloud service

**Specifications**

Function	Maximum	Max, resolution	Accuracy
Voltage DC	1000V	1µV	±(0.025% + 5)
Voltage AC	1000V	1µV	±(0.3% + 20)
Current DC	10A	0.01µA	±(0.10% + 5)
Current AC	10A	0.01µA	±(0.6% + 5)
Temperature	-50°C to 1000°C	0.1°C	±(1.0% + 2.5°C)
Resistance	50MΩ	0.01Ω	±(0.05% + 5)
Capacitance	10mF	0.001nF	±(2.0% + 5)
Frequency	10MHz	0.01Hz	±(0.005% + 5)
Diode and Continuity	Yes		
PC Interface	Bluetooth		
Power Supply	18 hours Li-ion rechargeable battery; AC Adaptor/charger		

Size(HxWxD): 220mm x 96mm x 60mm Weight: 631g

**Accessories:**

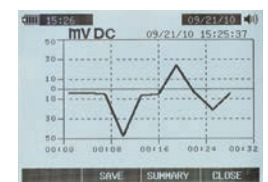
Test leads, Li-ion batteries, Type K temperature probe, Software, gift box with carrying case.



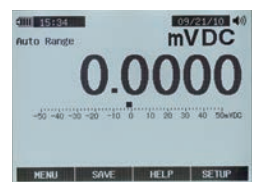
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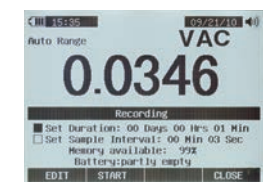
Model 9979



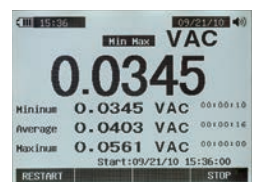
Trend Capture function



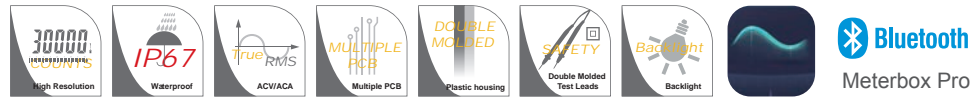
Fast Response time



Real-time data Recording



Multifunction selectable



Model 9978

Meterbox Pro



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EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



9978 is the new Professional Digital Multimeter which provides safer measurements with double molded plastic housing design and IP67 waterproof function. 9978 performance like datalogger & True RMS AC voltage and current measurements, 50,000 counts resolution and 0.025% basic DC accuracy within the reach of more customers. The large LCD display with analog bargraph and backlight ensure that datasare easy to read under all circumstances.

Meterbox pro software & cloud server support to transfer the measured data to customer's smartphone for edit and storage.

All inputs are protected by EN 61010-1 CATIV 600V/CATIII 1000V.



**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.5A/1000V fuses protection on current ranges



**Specifications**

Model		9970	9971	9978
	Max. Range		Best Accuracy	
DC Voltage	1000V	±(0.1%+8)	±(0.05%+5)	±(0.025% + 5)
AC Voltage	1000V	±(0.8%+40)	±(0.6%+40)	±(0.4% + 40)
DC Current	10A	±(0.2%+20)	±(0.15%+20)	±(0.15% + 2)
AC Current	10A	±(1%+15)	±(0.8%+15)	±(0.6% + 5)
Resistance	50MΩ	±(0.5%+20)	±(0.4%+20)	±(0.05% + 2)
Capacitance	10mF	±(1.5%+20)	±(0.2%+20)	±(1.0% + 5)
Frequency	10MHZ	±(0.1%+15)	±(0.1%+15)	±(0.005% + 1)
Temperature	-40°C~1000°C		±(1.0%+30)	±(1.0% + 2.5°)
Temperature	-40°F~1832°F		±(1.5%+50)	±(1.0% + 2.5°)

**Features**

		30,000	30,000	50,000
3.5" LCD Display Count				
True RMS and Auto Range		*	*	*
Bandwidth (Hz)	100KHz	*	*	*
Duty Cycle	10%~90%	±(1%+30)	±(1%+30)	±(1%+30)
Diode		*	*	*
Auto Power Off		*	*	*
Continuity Buzzer		*	*	*
Low battery indication		*	*	*
Data Hold		*	*	*
Relative Mode		*	*	*
MAX/MIN		*	*	*
Data logging		*	100	*
Bluetooth Interface		*	*	*
Double Backlight		*	*	*
Analog Bar Graph		*	*	*
Full Icon Display		*	*	*
Setup		*	*	*
Input Impedance for DCV/ACV	10MΩ	*	*	*
4-20mA Loop	0~100%		±(1%+50)	±(1%+50)
10A/1000V & 0.5A/1000V fuses protection on current ranges		*	*	*
Current measurement alarm		*	*	*
Voltage & Current AC+DC Measurement		*	*	*

Size(HxWxD): 220mm x 96mm x 60mm

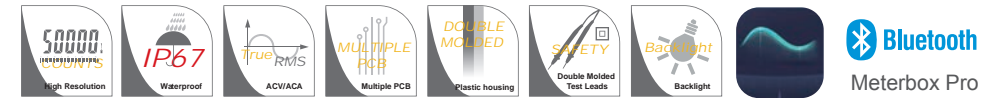
Weight: 631g

Accessories: Test leads, 6x1.5V "AAA" batteries, Type K temperature probe(9971), gift box with carrying case and Software



Model 9971

Model 9970



Model 9972



Model 9973



Model 9974

9972/9973/9974 are the new Professional Digital Multimeters which provide much safer measurements with double molded plastic housing design and IP67 waterproof function. 9972/9973/9974 performance like datalogger & True RMS AC voltage and current measurements, 50,000 counts resolution and 0.025% basic DC accuracy within the reach of more customers.

All inputs are protected by EN 61010-1 CATIV 600V/CATIII 1000V.



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- IP67 dust and water proof
- True RMS



- Bluetooth interface
- 50000 counts
- PC Calibration

**Specifications**

Model	Range	9972	9973	9974
DC Voltage	500mV/5V/50V/500V/1000V	±(0.025%+5)	±(0.025%+5)	±(0.025%+5)
AC Voltage	500mV/5V/50V/500V/1000V	±(0.4%+30)	±(0.4%+30)	±(0.4%+30)
DC Current	500μA/5000μA/50mA/500mA/10A	±(0.1%+15)	±(0.15%+15)	±(0.1%+15)
AC Current	500μA/5000μA/50mA/500mA/10A	±(0.7%+15)	±(0.7%+15)	±(0.7%+15)
Resistance	500Ω/5KΩ/50KΩ/500KΩ/5MΩ/50MΩ	±(0.3%+8)	±(0.3%+8)	±(0.3%+8)
Capacitance	50nF/500nF/5μF/50μF/500μF/5mF/50mF	±(1%+20)	±(1%+20)	±(1%+20)
Frequency	10Hz-10MHz	±(0.01%+8)	±(0.01%+8)	±(0.01%+8)
Temperature	-40°C~1000°C	±(1%+30)	±(1%+30)	±(1%+30)
Temperature	-40°F~1832°F	±(1.5%+50)	±(1.5%+50)	±(1.5%+50)
Power	2500W			±(2%+5)

**Features**

		50,000	50,000	50,000
3.5" LCD Display Count				
Auto Range		*	*	*
True RMS		*	*	*
Bandwidth (Hz)	100KHz	*	*	*
Duty Cycle	10%~90%	±(1%+30)	±(1%+30)	±(1%+30)
Diode		*	*	*
Auto Power Off		*	*	*
Continuity Buzzer		*	*	*
Low battery indication		*	*	*
Data Hold		*	*	*
Relative Mode		*	*	*
MAX/MIN		*	*	*
Data logging		100	9999	100
Bluetooth Interface		*	*	*
Double Backlight		*	*	*
Analog Bar Graph		*	*	*
Full Icon Display		*	*	*
Setup		*	*	*
Input Impedance for DCV/ACV	10MΩ	*	*	*
4-20mA Loop	0~100%	±(1%+50)	±(1%+50)	±(1%+50)
10A/1000V & 0.5A/1000V fuses protection on current ranges		*	*	*
Current Measurement Alarm		*	*	*
Voltage & Current AC+DC Measurement		*	*	*

Size(HxWxD): 220mm x 96mm x 60mm

Weight: 631g

Accessories:

Test leads, 6x1.5V "AAA" batteries, Type K temperature probe, power adaptor(9974) gift box with carrying case and Software

# Heavy Duty True RMS Industrial Multimeter with TFT color LCD display

## Features

- Bluetooth interface
- Fully PC Calibration
- Fast response time 10/sec
- 100kHz AC bandwidth
- Heavy duty & compact size
- CATIV 600V/ CATIII 1000V

CE  
EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Bluetooth  
Meterbox Pro

• True RMS

- TFT color LCD display
- 50000 counts
- PC Calibration



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



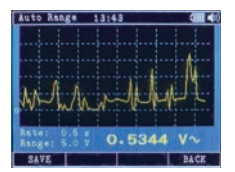
www.tuv.com  
ID 1419033615



Model 989



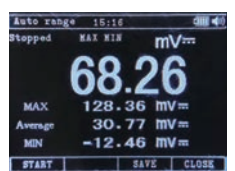
High Resolution & Accuracy



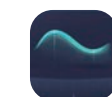
Trend Capture function



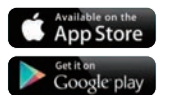
Help Menu



Fast response time



Bluetooth  
Meterbox Pro



- Remote measurement of voltage, current, resistance, capacitance and other electrical parameter
- Measurement data can be transmitted to smart phones via Bluetooth and visually analyzed and stored
- User can annotate and save each measurement
- Data can be shared to e-mail and other platforms

The 989 Heavy duty True RMS Industrial Digital Multimeter with TFT color LCD display, providing fast A/D converting sampling time, high accuracy, built-in datalogging and Trend Capture features. It can trace any interrupted problems of the equipments and watch on without person. It is easy to find and solve the problems of the production equipments, providing Bluetooth technology and memorizing the datasheets. It is much safer measurements with double molded plastic housing design.

### Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

### Features

Features	989	989H
Large 50,000 count 320 x 240 TFT color LCD display	*	*
Logging function with Trend Capture for easy review of logged data	*	*
Graph 100 Data review	*	*
Bluetooth interface for easy data transfer & accuracy calibration	*	*
10kHz bandwidth (voltage/current)	*	100kHz
AC, ACV+DCV True-RMS measurements	*	*
Records events and trends	*	*
Saves measurements	*	*
10times/sec A/D convert fast sampling time	*	*
Peak capture (records transients as fast as 250µs)	*	*
Min/Max/Average with Time stamp (records signal fluctuations)	*	*
4-20mA process loop measurements with % reading	*	*
Battery capacity indication	*	*
Date indication	*	*
Meterbox Pro & cloud service	*	*
2m drop proof	*	*

### Specifications

Function	Maximum	Max, resolution	Accuracy
Voltage DC	1000V	10mV	±(0.05% + 5)
Voltage AC	1000V	10mV	±(0.5% + 5)
Current DC	10A	10µA	±(0.2% + 5)
Current AC	10A	10µA	±(0.8% + 5)
Temperature	-200°C to 1350°C	0.1°C	±(1.0% + 3°C)
Resistance	50MΩ	10mΩ	±(0.2% + 10)
Capacitance	10mF	0.001nF	±(1.0% + 8)
Frequency	10MHz	0.0001Hz	±(0.01% + 5)
Diode and Continuity	Yes		
PC Interface	Bluetooth		
Power Supply	7.4V Li-ion rechargeable battery; AC Adaptor		

Size(HxWxD): 170mm x 79mm x 50mm Weight: 360g

Accessories: Test leads, Li-ion batteries, Type K temperature probe, Software, Power Adaptor, gift box with carrying case.





• True RMS

- TFT color LCD display
- 6000 counts
- PC Calibration



Model 988H



The 988H Heavy duty True RMS Industrial Digital Multimeters with TFT color LCD display, providing fast A/D converting sampling time, high accuracy, built-in datalogging and Trend Capture features. It can trace any interrupted problems of the equipments and watch on without person. It is easy to find and solve the problems of the production equipments, providing Bluetooth technology and memorizing the datasheets. It is much safer measurements with double molded plastic housing design.

**Features**

- Large 6000 counts 320 x 240 TFT color LCD display
- Logging function with Trend Capture for easy review of logged data
- Graph 100 Data review
- Bluetooth interface for easy data transfer & accuracy calibration (Optional)
- 1kHz bandwidth (voltage/current)
- AC ACV+DCV True RMS measurement
- Setup function & save measurement
- Fast sampling time
- Peak capture (records transients as fast as 500µs)
- Max/Min/Avg with time stamp (records signal fluctuation)
- 4-20mA process loop measurements with % reading
- Meterbox Pro & cloud service

**Specifications**

Function	Maximum	Max Resolution	Basic accuracy
Voltage DC	1000V	100mV	±(0.1% + 5)
Voltage AC	1000V	100mV	±(0.9% + 5)
Voltage AC+DC	1000V	100mV	±(3.0% + 20)
Current DC	10A	0.1µA	±(0.9% + 5)
Current AC	10A	0.1µA	±(1.2% + 5)
Temperature	1350°C/2462°F	0.1°C/°F	±(1.2% + 3°)
Resistance	60MΩ	0.1Ω	±(0.8% + 5)
Capacitance	10mF	0.01nF	±(1.2% + 8)
Frequency	10MHz	0.01Hz	±(0.09% + 5)
Diode and Continuity	Yes		
Power Supply	7.4V Li-ion rechargeable battery; AC adaptor		

Size(HxWxD): 170mm x 79mm x 50mm Weight: 360g

Accessories: Test leads, Li-ion batteries, Type K temperature probe, Software, gift box with carrying case.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



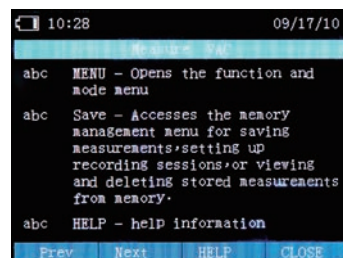
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Fast response time



High Resolution & Accuracy



Help Menu



• True RMS

• 6000/60000 counts

The 985/987A Heavy duty True RMS Industrial Digital Multimeters with providing fast A/D converting sampling time, high accuracy. It can trace any interrupted problem of the equipments and watch on without person. It is easy to find and solve the problems of the production equipments. It is much safer measurements with double molded plastic housing design.

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges



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Model 985

**Features**

	985	987A	987BT	987H
Large 60,000/6000 counts LCD display with analog bargraph & backlight		*	*	*
10kHz bandwidth (voltage/current)	*	*	*	100kHz
AC True-RMS measurement	*	*	*	*
Low pass filter (VFD)		*	*	*
A/D convert fast sampling time	*	*	*	*
Peak capture (records transients as fast as 500µs)	*	*	*	*
Min/Max/Average with Time stamp (records signal fluctuations)	*	*	*	*
Bluetooth interface for easy data transfer & accuracy calibration			*	*
4-20mA process loop measurements with % reading		*	*	*

**Specifications**

Function	Maximum	Max, resolution	Basic Accuracy	985	987A	987BT	987H
Voltage DC	1000V	10mV	±(0.9% + 5)	*	*	*	*
		100mV					
Voltage AC	1000V	10mV	±(1.0% + 5)	*	*	*	*
		100mV					
Current DC	10A	0.01µA	±(1.5% + 5)	*	*	*	*
		0.1µA					
Current AC	10A	0.01µA	±(2.5% + 5)	*	*	*	*
		0.1µA					
Resistance	60MΩ	10 mΩ	±(1.2% + 5)	*	*	*	*
		100 mΩ					
Temperature	760°C/1400°F	0.1°C/°F	±(2.0% + 3°)	*	*	*	*
Capacitance	10mF	0.01nF	±(2.5% + 5)	*	*	*	*
Frequency	10MHz	0.01Hz	±(1.0% + 2)	*	*	*	*
Diode and Continuity	Yes						
Power Supply	1.5Vx4 "AAA" batteries.						

Size(HxWxD): 170mm x 79mm x 50mm

Weight: 360g

Accessories: Test leads, Batteries, Type K temperature probe, Software, gift box with carrying case.



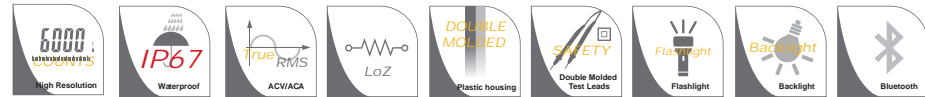
EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 987A



Model 987BT



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

965 Series are new compact meters with double molded plastic housing and over sized high contrast 6000 counts LCD display. They are all CAT IV 600V/CATIII 1000V.



Model 965



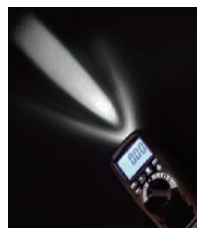
Model 965BT

Meterbox Pro

Specifications				
Model	Range	965	965T	965BT
DC Voltage (V)	600mV/6V/60V/600V/1000V	±(0.5%+1)	±(0.5%+1)	±(0.1%+2)
AC Voltage (V)	600mV/6V/60V/600V/1000V	±(1.0%+3)	±(1.0%+3)	±(0.8%+10)
DC Current (A)	600µA/6000µA/60mA/600mA/6A/10A	±(1.0%+3)	±(1.0%+3)	±(0.5%+10)
AC Current (A)	600µA/6000µA/60mA/600mA/6A/10A	±(1.2%+3)	±(1.2%+3)	±(0.8%+3)
Resistance (Ω)	600Ω/6KΩ/60KΩ/600KΩ/6MΩ/60MΩ	±(1.2%+5)	±(1.2%+5)	±(0.8%+10)
Capacitance (F)	40nF/400nF/4µF/40µF/400µF/4000µF 60nF/600nF/6µF/60µF/600µF/6000µF	±(3.0%+5)	±(3.0%+5)	±(3.0%+10)
Frequency(Hz)	10Hz-10KHz	±(0.1%+5)	±(0.1%+5)	±(0.01%+5)
Temperature(°C)	-20°C~760°C	±(1.2%+3°C)	±(1.2%+3°C)	±(1.0%+3°C)
Temperature(°F)	-4°F~1400°F	±(2.0%+4°F)	±(2.0%+4°F)	±(1.8%+4°F)
Features				
Display Count		6000	6000	6000
Auto Range		*	*	*
True RMS		*	*	*
Bandwidth(Hz)		45Hz-1kHz	45Hz-1kHz	45Hz-1kHz
Duty Cycle	0.1~99.9%	*	*	*
Diode		*	*	*
Auto Power Off	Around 15 Minutes	*	*	*
Continuity Buzzer		*	*	*
Low Battery Indication	≤4.5V	*	*	*
Data Hold/Relative Mode		*	*	*
MAX/MIN/AVG		MAX/MIN	MAX/MIN	MAX/MIN/AVG
AC+DC				*
Peak Value			*	*
Bluetooth interface with Meterbox pro software				*
Automatic backlight for LCD, Button, knob Switch & Flashlight		*	*	*
Analogue Bar Graph		61	61	61
Low input Impedance for DCV/ ACV measurements	>3kΩ @ 600V MAX.		*	*
Input Protection		*	*	*
Input Impedance for DCV/ ACV	Around 10MΩ	*	*	*
IP67 Waterproof		*	*	*

Size(HxWxD): 170mm x 74mm x 45mm Weight: 218g

Accessories: Test leads, 1.5AAA x 4 batteries, Temperature Probe, carrying case and gift box.



950 Series are new compact meters with double molded plastic housing and over sized high contrast 4000 counts LCD display. They are all CAT III 600V.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 952BT

Specifications						
Model	Range	950	950B	951H	951BT	952BT
DC Voltage (V)	400mV/4V/40V/400V/600V	±(0.8%+2)	±(0.8%+2)	±(0.8%+8)	±(0.8%+1)	±(0.8%+1)
AC Voltage (V)	4V/40V/400V/600V 4A/10A	±(1.0%+3) ±(1.0%+3)	±(1.0%+3) ±(1.0%+3)	±(1.5%+10) ±(1.0%+8)	±(0.8%+10) ±(0.5%+10)	±(0.8%+10) ±(0.5%+10)
DC Current (A)	400µA/4000µA/40mA/ 400mA		±(1.0%+3)			±(1.0%+3)
AC Current (A)	400µA/4000µA/40mA/ 400mA		±(1.2%+3)	±(2%+3)	±(1.2%+3)	±(1.2%+3)
Resistance (Ω)	400Ω/4KΩ/40KΩ/400KΩ/ 4MΩ/40MΩ	±(1.2%+5)	±(1.2%+5)	±(1.2%+5)	±(0.8%+10)	±(0.8%+10)
Capacitance (F)	40nF/400nF/4µF/40µF/400µF/ 4000µF	±(3.0%+5)	±(3.0%+5)	±(3.0%+5)	±(3.0%+10)	±(3.0%+10)
Frequency(Hz)	10Hz-10MHz	±(1.2%+5)	±(1.2%+5)	±(1.2%+3)	±(1.2%+5)	±(1.2%+5)
Temperature(°C)	-20°C~760°C	±(1.2%+3°C)	±(1.2%+3°C)	±(1.5%+5°C)	±(1.0%+3°C)	±(1.0%+3°C)
Temperature(°F)	-4°F~1400°F	±(2.0%+4°F)	±(2.0%+4°F)	±(1.5%+9°F)	±(1.8%+4°F)	±(1.8%+4°F)

Features				
	950	950B	951H	951BT/952BT
Display Count	4000	4000	4000	4000
Auto Range	*	*	*	*
True RMS	*	*	*	*
Bandwidth(Hz)	45Hz-1kHz	45Hz-1kHz	45Hz-400Hz	45Hz-1kHz
Duty Cycle	0.1~99.9%	*	*	*
Diode	*	*	*	*
Auto Power Off	Around 15 Minutes	*	*	*
Continuity Buzzer	*	*	*	*
Low Battery Indication	≤3.5V	*	*	*
Data Hold	*	*	*	*
MAX/MIN	*	*	*	*
Bluetooth interface with Meterbox pro software				*
LCD Backlight	*	*	*	*
Flashlight	*	*	*	*
Analogue Bar Graph	41	41	41	41
Low input Impedance for DCV/ ACV measurements	>3kΩ @ 600V MAX.		*	*
Input Protection	*	*	*	*
Input Impedance for DCV/ ACV	Around 10MΩ	*	*	*
IP67 Waterproof	*	*	*	*

Size(HxWxD): 150mm x 65mm x 38mm

Weight: 188g

Accessories:

Test leads, 1.5V AAA x 3 batteries, Temperature Probe, carrying case and gift box.



Model 950



Model 9560

Features

- Low pass filter for accurate measurement of variable frequency drive (VFD) signals
- 6000 counts display with LCD Backlight
- True RMS measurement
- 45Hz~1kHz AC Bandwidth
- Diode & Continuity Buzzer
- Auto Power Off
- Low Battery Indication
- Data Hold Function
- Auto Ranging
- Max/Min
- Relative Mode
- Input Protection
- IP67 Waterproof

Specifications		Best Accuracy	
Model	Range	9560	9561
DC Voltage (V)	60mV/600mV/6V/60V/600V/1000V	±(0.5%+5)	±(0.5%+5)
AC Voltage (V)	60mV/600mV/6V/60V/600V/1000V	±(0.8%+3)	±(0.8%+3)
VFD	50.0V to 700V	±(4.0%+3)	±(4.0%+3)
DC Current (A)	600µA/6000µA/60mA/600mA/6A/10A	±(1.0%+3)	±(1.0%+3)
AC Current (A)	600µA/6000µA/60mA/600mA/6A/10A	±(1.5%+3)	±(1.5%+3)
Resistance (Ω)	600Ω/6KΩ/60KΩ/600KΩ/6MΩ/60MΩ	±(0.8%+2)	±(0.8%+2)
Capacitance (F)	99.99nF/999.9nF/9.999µF/99.99µF/999.9µF/9.999mF/99.99mF	±(4.0%+5)	±(4.0%+5)
Frequency(Hz)	9.999Hz-9.999MHz	±(0.1%+4)	±(0.1%+4)
Temperature(°C)	-40°C~1000°C	±(3.0%+3)	±(3.0%+3)
Temperature(°F)	-40°F~1832°F	±(3.0%+5)	±(3.0%+5)

Size(HxWxD): 180mm x 82mm x 55mm Weight: 255g  
 Accessories: Test leads, 9V battery, temperature probe (9561) and gift box with carrying case.



IP67 dust and water proof



2m Drop-proof



Features

- Low pass filter for accurate measurement of variable frequency drive (VFD) signals (9562/9664H/9665H)
- Low input impedance prevents false readings due to "ghost voltage" (LoZ) (9664H/9665H)
- 3000A ACA flexible clamp (9664H/9665H)
- Peak Value (9664H/9665H)
- 6000 counts display with LCD backlight
- True RMS Measurement
- 45Hz-1kHz Bandwidth (9562/9663H/9664H)
- 45Hz-10kHz Bandwidth (9665H)
- Duty Cycle 0.1~99.9%
- Diode & Continuity Buzzer
- Auto Ranging & Auto Power Off
- Low Battery Indication ≤7.5V
- Data Hold
- Relative Mode
- Max/Min (9562/9663H)
- 61 Analogue Bar Graph
- Input Protection
- Input Impedance for DCV & ACV (around 10MΩ)
- IP67 Waterproof

Specifications

Model	Range	9562	9663H	9664H	9665H
DC Voltage (V)	60mV/600mV/6V/60V/600V/1000V	±(0.5%+5)	±(0.5%+5)	±(0.5%+5)	±(0.5%+5)
AC Voltage (V)	60mV/600mV/6V/60V/600V/1000V	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)
VFD	50.0V to 700V	±(4.0%+3)		±(4.0%+3)	±(4.0%+3)
Loz (V)	600V DC/AC			±(3.0%+30)	±(3.0%+30)
DC Current (A)	600µA/6000µA/60mA/600mA/6A/10A	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)
AC Current (A)	600µA/6000µA/60mA/600mA/6A/10A	±(1.5%+3)	±(1.5%+3)	±(1.5%+3)	±(1.5%+3)
Flexible Coil Current 3000A	3000A			±(3.0%+5)	±(3.0%+5)
Resistance (Ω)	600Ω/6KΩ/60KΩ/600KΩ/6MΩ/60MΩ	±(0.8%+2)	±(0.8%+5)	±(0.8%+2)	±(0.8%+2)
Capacitance (F)	99.99nF/999.9nF/9.999µF/99.99µF/999.9µF/9.999mF/99.99mF	±(4.0%+5)	±(4.0%+5)	±(4.0%+5)	±(4.0%+5)
Frequency (Hz)	9.999Hz-9.999MHz	±(0.1%+4)	±(0.1%+4)	±(0.1%+4)	±(0.1%+4)
Temperature(°C)	-40°C~1000°C	±(3.0%+3)	±(3.0%+3)	±(3.0%+3)	±(3.0%+3)
Temperature(°F)	-40°F~1832°F	±(3.0%+5)	±(3.0%+5)	±(3.0%+5)	±(3.0%+5)

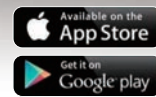
Size(HxWxD): 180mm x 82mm x 57mm Weight: 255g  
 Accessories: Test leads, 9V battery, temperature probe, carrying case and gift box.

# Professional True RMS Industrial Digital Multimeters



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

## Meterbox pro Software for DT-9959 DMM



- Remote measurement of voltage, current, resistance, capacitance and other electrical parameter
- Measurement data can be transmitted to smart phones via Bluetooth and visually analyzed and stored
- User can annotate and save each measurement
- Data can be shared to e-mail and other platforms



9919/9929/9939/9949/9959 are the new Professional Digital Multimeters which provide much safer measurements with double molded plastic housing design and IP67 waterproof function. 9949/9959 performance like datalogger & True RMS AC voltage and current measurements, 50,000 counts resolution and a 0.03% basic DC accuracy within the reach of more customers. The large LCD display with analog bargraph and backlit ensure that data are easy to read under all circumstances.

All inputs are protected to EN 61010-1 CATIV 600V/CATIII 1000V.

### Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.5A/1000V fuses protection on current ranges

- Bluetooth interface (9959)
- 50000 counts
- PC Calibration

- IP67 dust and water proof
- True RMS



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



### Features

	9919	9929	9939	9949	9959
40,000 counts high resolution (0.01mV, 0.01µA, 0.01Ω)	*	*	*		
50,000 counts high resolution (0.01mV, 0.01µA, 0.01Ω)				*	*
Triple LCD display with bargraph & Backlit		*	*	*	*
AC+DC Measurement		*	*	*	*
9999 Reading memories		*	*	*	*
True RMS measurement & Peak capture mode	*	*	*	*	*
1000V input protection on all ranges	*	*	*	*	*
4-20mA process loop measurements with % reading	*	*	*	*	*
Data Hold/MAX/MIN recording mode	*	*	*	*	*
IP67 waterproof and auto power off	*	*	*	*	*
Wide capacitance range	*	*	*	*	*
Wireless USB interface				*	*
Bluetooth interface with Meterbox pro software					*

### Specifications

Function	Max. Range	Max. Resolution	Basic Accuracy
Voltage DC	1000 V	10µV	±0.03% (9949/9959) ±0.06% (9929/9939) ±0.06% (9919/9919B)
Voltage AC	1000V	10µV	±1.0%
Current DC	10A	0.01µA	±1.0%
Current AC	10A	0.01µA	±1.5%
Resistance	40MΩ	10mΩ	±0.3%
Duty Cycle	99.9%	0.1%	±1.2%
Frequency	10MHz	0.001Hz	±0.1%
Capacitance	40mF	10PF	±3.5%
Temperature	1200°C/2192°F 760°C/1400°F(9919)	0.1°C/°F	±1.0%
Diode Check			
Continuity Test			

Size(HxWxD): 183mm x 82mm x 55mm Weight: 447g

Accessories: Test leads, 9V battery, Type K temperature probe, gift box with carrying case and Software (9959)

USB cable and Software (9939)



Model 9959



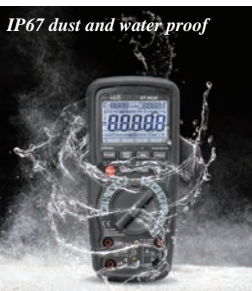
Model 9929/9939



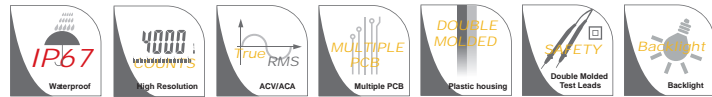
Model 9949



Model 9919



IP67 dust and water proof



True RMS

IP67 dust and water proof

Model 9918



Model 9915H



Model 9917H



They set the standard with a combination of precision, features, easy-to-use, safety and reliability.  
True RMS AC Voltage, Current readings, as well as Frequency and Capacitance ranges.

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.5A/1000V fuses protection on current ranges



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Features**

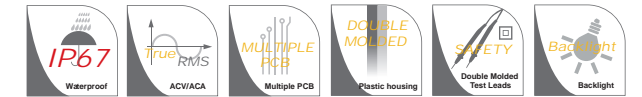
	9915H	9917H	9918T	9918H
Digital LCD display counts	6000	6000	4000	4000
True RMS measurement	*	*	*	*
Temperature measurement	*	*	*	*
IP67 & Safety design	*	*	*	*
Relative zero	*	*	*	*
Wide capacitance range	*	*	*	*
Max/Min recording mode & Data Hold	*	*	*	*
Auto Power Off & Backlight	*	*	*	*
AC/DC current clamp-on adaptor input	*	*	*	*
Peak capture mode			*	*
Analog bargraph/segment			*	*

**Specifications**

Function	Max. Range	Basic Accuracy	9915H	9917H	9918T	9918H
Voltage DC	1000 V	±0.5%+5digits	*	*	*	*
Voltage AC	1000V	±0.8%+3digits	*	*	*	*
Current DC	10A	±1.0%+3digits	*	*	*	*
Current AC	10A	±1.5%+3digits	*	*	*	*
Resistance	60MΩ	±0.8%+2digits	*	*	*	*
	40MΩ					
Duty Cycle	99.9%	±1.2%+2digits	*	*	*	*
Frequency	9.999MHz	±1.0%+5digits	*	*	*	*
Capacitance	99.99mF	±4.0%+5digits	*	*	40mF	40mF
	1300°C/2372°F					
Temperature	760°C/1400°F	±3.0%+5°C/9°F				
AC/DC current clamp-on adaptor input				40A/400A		
Diode Check			*	*	*	*
Continuity Test			*	*	*	*

Size(HxWxD): 182mm x 82mm x 55mm Weight: 360g

Accessories: Test leads, 9V battery, Type K temperature probe (9918T), gift box with carrying case.



9926/9927/9927T series are the new 6000 counts multimeters. They are combination of precision, features, easy-to-use, safety and reliability.  
9928/9928T are the new 11,000 counts and 9938 is the new 22,000 counts multimeter. They are combination of precision, features, easy-to-use, safety and reliability.  
9927T/9928T has True RMS AC Voltage and Current readings, MAX/MIN recording.

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.5A/1000V fuses protection on current ranges



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Features**

	9926	9927	9927T	9928	9928T	9938
Digital display counts	6000	6000	6000	11,000	11,000	22,000
Max. Resolution	0.1mV/0.1μA/0.1Ω		0.01mV/0.01μA/0.01Ω			
True RMS measurement			*		*	*
Analog bargraph/segment	*/61	*/61	*/61			*
Safety design	*	*	*	*	*	*
Relative mode	*	*	*	*	*	*
Data Hold	*	*	*	*	*	*
MAX/MIN recording mode	*	*	*	*	*	*
Auto Ranging	*	*	*	*	*	*
Auto Power Off	*	*	*	*	*	*
Wide capacitance range	1000μF	1000μF	1000μF	110mF	110mF	*
Temperature function		*	*	*	*	*

**Specifications**

Function	Max. Range	Basic Accuracy
Voltage DC	1000 V	±0.09%
Voltage AC	1000V	±0.8%
Current DC	10A	±1.0%
Current AC	10A	±1.5%
Resistance	40MΩ	±0.3%
Duty Cycle	99.9%	±1.2%
Frequency	10MHz	±0.1%
Capacitance	40mF	±3.5%
Temperature	760°C/1400°F	±3.0%
Diode Check		
Continuity Test		

Size(HxWxD): 182mm x 82mm x 55mm  
Weight: 360g

**Accessories:**

Test leads, 9V battery, Type K temperature probe and gift box with carrying case.



Model 9927/9927T



Model 9926



Model 9928/9928T



Model 9938



9968/9968BT are Professional digital multimeters which provide safer measurements with double molded plastic housing design and IP67 waterproof function. 9968/9968BT performance as True RMS AC/DC voltage and current measurement, 6000 counts resolution. The large OLED display with analog bargraph and backlit ensures that readings are easy to read under all circumstances. All inputs are protected by EN 61010-1 CATIV 600V/CATIII 1000V.

• 6,000 counts

IP67 dust and water proof  
True RMS



Model 9968BT



Model 320B



Meterbox Pro

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fast fuses protection on current ranges



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Features**

	9968	9968BT
Large 6,000 count OLED display	*	*
Logging function with Trend Capture for easy review of logged data	*	*
Bluetooth interface for easy data transfer	*	*
2kHz bandwidth (voltage/current)	*	*
AC, ACV+DCV True-RMS measurements	*	*
Record events and trends	*	*
Save measurements	*	*
Peak Hold	*	*
Min/Max/Average with Time stamp (records signal fluctuations)	*	*
4-20mA process loop measurements with % reading	*	*
Battery capacity indication	*	*
Flexible Current test (320B optional)	*	*
Date indication	*	*
Bluetooth interface	*	*
Meterbox pro & cloud service	*	*

**Specifications**

Function	Maximum	Max. resolution	Accuracy
Voltage DC	1000V	100mV	±(0.9% + 4)
Voltage AC	1000V	100mV	±(1.0% + 40)
Current DC	10A	0.1µA	±(1.8% + 5)
Current AC	10A	0.1µA	±(2.0% + 5)
Flexible A	3000A	0.01A	±(3.0%+5d)
Temperature	-20°C to 1000°C	0.1°C	±(2.0% + 3°C)
Resistance	60MΩ	0.1Ω	±(1% + 5)
Capacitance	60mF	0.01nF	±(2.0% + 10)
Frequency	10MHz	0.01Hz	±(0.5% + 4)
Diode	Max 3V Test current <0.5mA		
Continuity	Buzzer sounds at 50Ω		

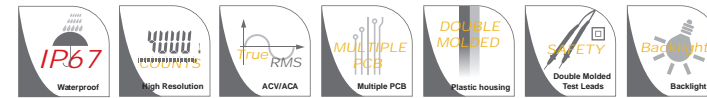
Size(HxWxD): 170mm x 79mm x 50mm Weight: 342g

Accessories: Test leads, 9V battery.

Type K temperature probe and gift box.

Model 9968

Model 320B



9969 is a Professional digital multimeter with 50000 counts resolution and a 0.06% basic DC accuracy within the reach of more customers.

9967/9967T series are the new 6600 counts multimeters. They are a combination of precision, easy-to-use, safety and reliability.

9967T has True RMS AC Voltage, Current readings, MAX-MIN recording, as well as Frequency and Capacitance readings.

All inputs are protected by EN 61010-1 CATIV 600V/CATIII 1000V.



- PC Calibration
- 50,000 counts

- IP67 dust and water proof
- True RMS



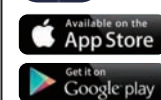
EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 9969



Bluetooth  
Meterbox Pro



Remote measurement of voltage, current, resistance, capacitance and other electrical parameter  
Measurement data can be transmitted to smart phones via Bluetooth and visually analyzed and stored  
User can annotate and save each measurement  
Data can be shared to e-mail and other platforms

**Features**

	9967	9967T	9969
Digital display counts	6600	6600	50,000
50,000 counts high resolution (0.001mV, 0.01µA, 0.01Ω)			*
True RMS measurement		*	*
1000V input protection on all ranges	*	*	*
Data Hold/ MAX/MIN /Relative function	*	*	*
Auto Power Off	*	*	*
Analog bargraph & segment	*	*	*
NCV Function	*	*	*

**Specifications**

Function	Max. Range	Basic Accuracy	9967	9967T	9969
Voltage DC	1000 V	±0.5%	*	*	±0.06%
Voltage AC	1000V	±0.8%	*	*	±1.0%
Current DC	10A	±1.2%	*	*	±1.0%
Current AC	10A	±1.8%	*	*	±1.5%
Resistance	60MΩ	±0.8%	*	*	±0.3%
Duty Cycle	99.9%	±1.2%	*	*	±1.2%
Frequency	10MHz	±1.5%	*	*	±0.1%
Capacitance	100µF/60mF	±3.0%	*	*	±3.5%
Temperature	760°C/1400°F	±3.0%	*	*	±1.0%
Diode Check			*	*	*
Continuity Test			*	*	*

Size(HxWxD): 170mm x 79mm x 50mm Weight: 366g

Accessories: Test leads, 9V battery.

Type K temperature probe and gift box.



Model 9967



Model 9960H



Model 9961H



Model 9964H



Model 9965H



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Features

Features	9960	9960H	9961/9961W	9961H	9962/9962T	9963/9963T	9964H	9965H
Digital display counts	4000	6000	4000	6000	4000	6000	6000	6000
True RMS measurement			9961W		9962T	9963T		
Safety design	*	*	*	*	*	*	*	*
Relative zero	*	*	*	*	*	*	*	*
Data Hold	*	*	*	*	*	*	*	*
MAX/MIN recording mode		*		*	*	*	*	*
VFD function							*	*
Current Clamp AC/DC 60A							*	*
Auto Power Off	*	*	*	*	*	*	*	*
Peak capture mode					*			
Wide capacitance range		99.99mF		99.99mF	40mF	1000uF	99.99mF	99.99mF
Analog bargraph/segment					*/42	*/61	61	61
NCV Function	*	*	*	*	*	*	*	*
Live test		*		*				
Low input Impedance				*				*

Specifications

Function	Max. Range	Basic Accuracy	9960	9960H	9961/9961W	9961H	9962/9962T	9963/9963T	9964H	9965H
Voltage DC	1000 V	±0.5%	*	*	*	*	*	*	*	*
Voltage AC	1000V	±0.8%	*	*	*	*	*	*	*	*
Current DC	10A	±1.2%	*	±1.0%	*	±1.0%	*	*	±1.0%	±1.0%
Current AC	10A	±1.8%	*	±1.5%	*	±1.5%	*	*	±1.5%	±1.5%
Current Clamp DC	60A	±1.0%							*	*
Current Clamp AC	60A	±1.2%							*	*
VFD function	700V AC	±4.0%							*	*
Resistance	40MΩ	±0.8%	*	60MΩ	*	60MΩ	*	*	60MΩ	60MΩ
Duty Cycle	99.9%	±1.2%	*	*	*	*	*	*	*	*
Frequency	10MHz	±1.5%	*	*	*	*	*	*	*	*
Capacitance	100μF/40mF	±3.0%	100μF	99.99mF	100μF	99.99mF	40mF	1000μF	99.99mF	99.99mF
Temperature	760°C/1400°F	±3.0%		1000°C/1382°F	*	1000°C/1382°F	*	*	1000°C/1382°F	1000°C/1382°F
Diode Check			*	*	*	*	*	*	*	*
Continuity Test			*	*	*	*	*	*	*	*

Size(HxWxD): 170mm x 79mm x 50mm

Weight: 366g

Accessories: Test leads, 9V battery, Type K temperature probe (without 9960) and gift box.



Model 9515

9515 series Digital Multimeters are compact and simple use for safety and reliable measurements. They are high accuracy and good choose to find and solve problems of the production equipments.

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

Features

- CAT IV 600V safety category
- Large OLED display (9519BT)
- Frequency and temperature measurement
- Voltage, Resistance, Continuity, Capacity measurement
- AC/DC current measurement, Max 10A current
- Diode test, data hold
- Peak Hold

Low pass filter for accurate measurement of variable frequency drive (VFD) signals (9516/9517/9518B/9519BT)

Features

	9515	9516	9517	9518B	9519BT
LCD display	LCD	LCD	LCD	LCD	OLED
Backlit Controls	*	*	*	*	*
Range mode	Manual	Auto	Auto	Auto	Auto
ACV+DCV measurements					*
Digital display counts	6000	6000	6000	6000/60000	6000
Analog Bargraph/segments				*	*
AC bandwidth (voltage/current)	1kHz	1kHz	1kHz	10kHz	1kHz
Auto Power Off	*	*	*	*	*
True-RMS measurements	*	*	*	*	*
Flexible A 3000A					*
VFD function		*	*	*	*
Bluetooth interface					*
Flexible Current test					*
Date indication					*
Data storage					*

Specifications

Function	Max. Range	Basic Accuracy	9515	9516	9517	9518B	9519BT
AC Voltage	1000V	1.0% ± 5 counts	*	*	*	*	*
DC Voltage	1000V	0.5% ± 3 counts	*	*	*	*	*
AC Current	10A	2.5% ± 5 counts	*	*	*	*	*
DC Current	10A	2.0% ± 3 counts	*	*	*	*	*
Flex A AC	3000A	3.0% ± 3 counts					*
Resistance	60Meg	2.5% ± 5 counts	*	*	*	*	*
Temperature	-20 to 1000°C -4 to 1832°F	2.5% ± 3°C			*	*	*
Capacitance	6000uF	2.5% ± 5 counts	*	*	*	*	60mF
Duty Cycle	1~99%		*	*	*	*	*
Frequency	10MHz	1.0% ± 2 counts	*	*	*	*	*
Continuity	50Ω		*	*	*	*	*
LoZ	600V		*	*	*	*	*
Diode Check	MAX 3V		*	*	*	*	*
4~20mA			*	*	*	*	*

Size(HxWxD): 188mm x 90mm x 45mm Weight: 373g

Accessories: Test leads, 1.5Vx3 "AAA" batteries, Type K temperature probe, 320B option (9518/9519BT), software and gift box with carrying case.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 9517



Model 320B

Model 9519BT

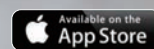
## Compact Digital Multimeters



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-2-032  
EN: 61010-2-033



Meterbox Pro



## Compact Digital Multimeters Selection Guide



### True RMS Compact Digital Multimeter

DT-960/960C compact True RMS digital multimeter is the tester for construction sites. The sturdy structure design is capable of resisting every shock and keep working with the very same precision and reliability(3m drop tested). It provides with all of the typical functions of everyday use, but also features an built-in flashlight to illuminate poorly lit environments.

DT-960C features Bluetooth technology to connect a compatible smartphone for remote viewing and sharing, software Meterbox Pro can store and analyze the data.



### Compact Digital Multimeters

DT-916H auto range multimeter measures AC and DC voltage and current, resistance, capacitance, frequency, duty cycle and temperature. It also tests continuity, diodes and has a built-in non-contact AC voltage detector. DT-912D manual range multimeter measures AC and DC voltage, DC current, resistance, continuity, diodes and batteries. Readings are displayed on a backlit LCD. They are suitable for commercial electrician, electronics technician, and DIY users.



### Smart True RMS Multimeter with Automatic Selection

DT-946 is a high performance smart digital multimeter with auto selection DC/AC voltage. It provides True RMS readings for more accurate measurements, also check resistance and continuity. It offers a built-in non-contact voltage detection function 50V~600V and a built-in LED flashlight offers convenience in poorly lit environments. The Autohold feature automatically holds the reading on the display when the leads are connected to the circuit being tested.



### CATIV 600V Pocket Multimeter with NCV Tester

DT-218 CAT IV 600V pocket multimeter with double molded plastic housing and designed with non-contact voltage detection function (VAC: 100V~600V). It measures AC and DC voltage and current, resistance, continuity, capacitance, frequency, duty cycle and diode test. A built-in LED flashlight offers convenience in poorly lit environments.



### Pocket Digital Multimeters

DT-913B/913T/915T compact digital multimeter with rubber holster housing. It measures AC and DC voltage and current, resistance, continuity and diode test etc. They are all CAT III 600V rated. DT-915T has high contrast 6000 counts LCD display. It offers advanced variable frequency drive filtering to help you accurately analyze non-traditional sine waves and noisy signals.

# Compact 6000 Counts True RMS Multimeter with Backlight

- Built-in kick stand frees up hands allowing you to work safely and efficiently
- Designed to withstand the rugged environment of a work site and has been drop tested up to 2 meters
- CAT III 600V safety rating



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model  
927H/928BT



927 compact 600V True RMS 13-function auto-ranging multimeter with built-in NCV and Live detector.

926 is durable and attractive 600V multimeter for the beginning electrician. 7 Measurement functions including AC and DC voltage, DC current, resistance, diode test, battery test, and continuity provide the capability to tackle any basic electrical task.

	GOOD	LOW	BAD
1.5V	>1.3V	0.95 to 1.3V	<0.95V
9V	>7.7V	5.7 to 7.7V	<5.7V

### Features

	926A	926	927A	927	927H	928BT
Digital display counts with backlit	2000	2000	4000	4000	6000	6000
True RMS measurement	*	*	*	*	*	*
Range selection	Manual	Manual	Auto	Auto	Auto	Auto
MAX/MIN hold			*	*	*	*
0.1~99.9% Duty Cycle measurement				*	*	*
Diode & Continuity buzz check	*	*	*	*	*	*
Auto Power Off	*	*	*	*	*	*
Display backlight			*	*	*	*
Data Hold/REL measurement	*	*	*	*	*	*
Fast and accurate capacitance measurement				*		
Non-Contact ACV & ACV Live detection			NCV	*	*	*
Backlight for LCD, Knob Switch, Flashlight					*	*
1.5V and 9V battery test	*	*		*		
Full ranges protection	*	*	*	*	*	*
Drop tested up to 2 meters	*	*	*	*	*	*
Square wave signal output					*	*
Low input Impedance (around 3kΩ)					*	*
Bluetooth interface with Meterbox Pro software						*

### Specifications

Function	Max Range	Basic Accuracy	926A	926	927A	927	927H	928BT
Voltage DC	600V	±0.5%	*	*	*	*	*	1000V
Voltage AC	600V	±1.2%	*	*	*	*	*	1000V
Current DC	10A	±1.5%	*	*	*	*	*	*
Current AC	10A	±2.0%	*	*	*	*	*	*
Resistance	2MΩ	±0.8%	*	*				
	40MΩ	±3.0%			*	*	60MΩ	60MΩ
Capacitance	100mF	±3.5%			4mF	*	*	*
Frequency	10MHz	±1.5%			*	*	10KHz	10KHz
Temperature	760°C/1400°F	±1.5%			*	*	*	*
Battery test	Test 1.5V and 9V batteries		*	*		*		
Diode Check			*	*	*	*	*	*
Continuity Test			*	*	*	*	*	*

Size(HxWxD): 151mm x 75mm x 45mm Weight: 255g

Accessories: Test leads, 2x1.5V batteries and type K temperature probe (927/927A/927H/928BT), clamshell.

• Double molded plastic housing

• True RMS



Model 926A



Model 927



Model 928BT



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033





Model 916H



Model 916N



Model 912D

• Double molded plastic housing

• Built-in Non-Contact AC Voltage Detector (912N/916N/916H)



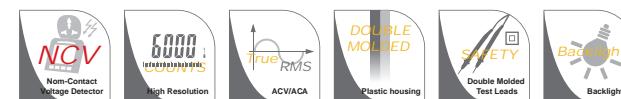
Features	912B	912D	912/912N	914	916	916N	916H
Digital display counts	2000	2000	2000	2000	4000	4000	4000
True RMS measurement		*					*
Range selection	Manual	Manual	Manual	Auto	Auto	Auto	Auto
MAX/MIN hold				MAX			*
Auto Power Off		*		*			*
Display backlight		*	*	*	*	*	*
Data Hold		*	*	*	*	*	*
REL measurement		*					*
Fast and accurate capacitance measurement							*
Non-Contact ACV detection			*			*	*
1.5V and 9V battery test		*	912N				*
Full ranges protection		*					*

Specifications	Function	Max. Range	Basic Accuracy	912/912N/912B	912D	914	916	916N	916H
Voltage DC	600V	±0.5%	*	*	*	*	*	*	*
	600V	±1.2%	*	*	*	*	*	*	*
Voltage AC	600V	±1.2%	*	*	*	*	*	*	*
	600V	±1.2%	*	*	*	*	*	*	*
Current DC	10A	±1.5%	*	*	*	*	*	*	*
	10A	±2.0%	*	*	*	*	*	*	*
Current AC	10A	±2.0%	*	*	*	*	*	*	*
	10A	±2.0%	*	*	*	*	*	*	*
Resistance	2MΩ	±0.8%	*	*	20MΩ				
	40MΩ	±3.0%				*	*	*	
	60MΩ	±0.8%							
Capacitance	4mF	±3.5%				100μF	100μF	*	*
	99.99mF	±3.0%							
Frequency	10MHz	±1.5%							
Temperature	760°C/1400°F	±1.5%			*	*	*	*	*
Duty Cycle	9.99%	±1.2%				*	*	*	*
Battery test	Test 1.5V and 9V batteries			*					
Diode Check			*	*	*	*	*	*	*
Continuity Test			*	*	*	*	*	*	*

Size(HxWxD): 138mm x 66mm x 38mm Weight: 208g  
Accessories: Test leads, 9V battery, type K temperature probe (916H) and clamshell.



	GOOD	LOW	BAD
1.5V	>1.3V	0.95 to 1.3V	<0.95V
9V	>7.7V	5.7 to 7.7V	<5.7V



• Double molded plastic housing  
• Built-in Non-Contact AC Voltage Detector (920N/921N/920H/931H/932H)

Features	920/920N/920L	921/921N	920H	922	922H	931H	932H
Digital display counts	2000	2000	2000	4000	4000	6000	6000
True RMS measurements					*	*	*
Backlight	920L					*	*
Data Hold/REL measurements	Hold	Hold		Hold	*	Hold	Hold
LoZ low impedance measurement							*
Auto Power Off				*	*	*	*
Fast and accurate capacitance measurement					*	*	*
Auto Ranging		*		*	*	*	*
MAX/MIN Hold		MAX				*	*
Duty Cycle					*		*
Non-Contact ACV detection (NCV)	920N	921N	*			*	*
Motor shaking & LED indicator for NCV detection						*	*
61-segments analog bargraph						*	*
Test 1.5V and 9V batteries			*				*
Full ranges protection			*		*	*	*

Specifications	Function	Max Range	Basic Accuracy	920/920N/920L	921/N	920H	922	922H	931H	932H
Voltage DC	600V	±0.5%	*	*	*	*	*	*	1000V	1000V
	600V	±1.2%	*	*	*	*	*	*	1000V	1000V
Voltage AC	600V	±1.2%	*	*	*	*	*	*	1000V	1000V
	600V	±1.2%	*	*	*	*	*	*	1000V	1000V
Current DC	10A	±2.5%	*	*	*	*	*	*	*	*
	10A	±3.0%	*	*	*	*	*	*	*	*
Resistance	2MΩ	±0.8%	*	20MΩ	*					
	40MΩ	±0.8%				*	*			
	60MΩ	±2.0%							*	*
Capacitance	99.99mF	±3.0%				100μF	4mF	*	*	*
	99.99mF	±3.0%							*	*
Frequency	10MHz	±1.5%				9.999MHz	*	*	*	*
Temperature	760°C/1400°F	±1.5%			921N	*	*	*	*	*
Duty Cycle	99.9%	±1.2%				*	*	*	*	*
Diode Check			*	*	*	*	*	*	*	*
Continuity Test			*	*	*	*	*	*	*	*

Size(HxWxD): 150mm x 70mm x 48mm Weight: 255g  
Accessories: Test leads, 9V battery, type K temperature probe (921/921N/922/922H/931H/932H) and gift box with carrying case.



Motor shaking & LED indicator for NCV detection



Model 931H



Model 932H



Model 920H



Model 922H



Model 961



Model 960BL



Model 960C

• True RMS

• Double molded plastic housing



DT-960/960B/960C/960BL/960BT/960BT6/961/962/964/966 Series are True RMS compact digital multimeters with double molded plastic housing and over sized high contrast 4000 counts LCD display. They're all CAT III rated for 600V.

**Safety Conformance**

- EN61010-1 CATIII 600V
- Double molded plastic housing
- Full ranges protection



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Features**

	960	960B	960BL	960BT	960BT6	961	962	964	966	960C
Digital display counts	4000	4000	2000	4000	6000	4000	4000	6000	6000	6000
Display type(Negativity display)	*	Positive	Positive	Positive	Positive	*	*	*	Positive	Positive
True RMS measurements	*	*	*	*	*	*	*	*	*	*
Safety design	*	*	*	*	*	*	*	*	*	*
Data Hold/ MAX/MIN recording mode	*	*	*	*	*	*	*	*	*	*
Flash light/ Backlight	*	*	*	*	*	*	*	*	*	*
Auto Ranging & Auto Power Off	*	*	*	*	*	*	*	*	*	*
Type K temperature input						*	*	*	*	*
Bluetooth interface with Meterbox pro software				*	*				*	*
LoZ: low input impedance to prevent ghost voltage								*	*	*

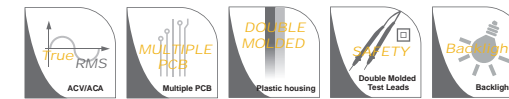
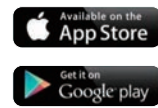
**Specifications**

Function	Max Range	Basic Accuracy	960	960B	960BL	960BT	960BT6	961	962	964	966	960C
Voltage DC	600V	±0.5%	*	*	*	*	*	*	*	*	*	*
Voltage AC	600V	±1.0%	*	*	*	*	*	*	*	*	*	*
Current DC	10A	±1.0%	*	*	*	*	*	*	*	*	*	*
Current AC	10A	±2.0%	*	*	*	*	*	*	*	*	*	*
Resistance	40MΩ	±1.5%	*	*	20MΩ	*	6MΩ	*	*	60MΩ	6MΩ	60MΩ
Capacitance	4000μF	±3.0%	*	*	*	*	6000μF	*	*	4000μF	6000μF	6000μF
Frequency	10kHz	±1.0%	*	*	*	*	*	*	*	*	*	*
Temperature	760°C/1400°F	±3.0%	*	*	*	*	*	*	*	*	*	*
Duty Cycle	99.9%	±1.2%	*	*	*	*	*	*	*	*	*	*
Diode Check			*	*	*	*	*	*	*	*	*	*
Continuity Test			*	*	*	*	*	*	*	*	*	*

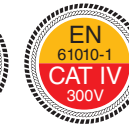
Size(HxWxD): 120mm x 67mm x 46mm      Weight: 200g  
Accessories: Test leads, 1.5V AAA x 2 batteries, type K temperature probe (961/962) and clamshell.



Flexible clamp  
Model DT-320BS



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Safety Conformance**

- EN61010-1 CAT IV 300V, CAT III 600V
- 600V input protection on all ranges

**Features**

	896	897	897FC
Large LCD display 4000 counts with flashlight	*	*	*
240 x 320 2.4" TFT color LCD display	*	*	*
0.47" (12mm) Fork clamp sensor for AC/DC 100A current measurement			*
Temperature measurements		*	*
True RMS measurements	*	*	*
A/D convert fast sampling time: 3 Times/sec.	*	*	*
Low pass filter	*	*	*
Peak capture (records transients as fast as 500μs) & Data Hold	*	*	*
Min/Max with Time stamp (records signal fluctuations)	*	*	*
Bluetooth interface	*	*	*

**Specifications**

Function	Max Range	Basic Accuracy	896	897	897FC
Voltage DC	600V	±0.5%	*	*	*
Voltage AC	600V	±1.0%	*	*	*
Current DC	10A	±1.5%	*	*	*
Fork clamp DC current	100A	±3.0%			*
Current AC	10A	±2.0%	*	*	*
Fork clamp AC current	100A	±3.0%			*
Resistance	40MΩ	±1.0%	*	*	*
Capacitance	4000uF	±3.0%	*	*	*
Frequency	10MHz	±1.0%	*	*	*
Duty Cycle	10.0% to 90.0%	±1.2%	*	*	*
Temperature	760°C/1400°F	±2.5%	*	*	*
Diode Check & Continuity Test			*	*	*

Size(HxWxD): 148mm x 68mm x 48mm  
Weight: 348g

Accessories:  
Test leads, Li-ion batteries, Software, gift box.



Bluetooth



Bluetooth

Model 896



Bluetooth

Model 897



Model 897FC



- Safety Conformance**
- EN61010-1 CATIV 600V
  - 200mA fused protection

- Double Molded housing
- CAT IV 600V
- Full range protection



- Non-Contact Voltage Detection
- Flashlight



Model 218

The pocket models 216, 218, 218T and 219 are double molded plastic housing with large high contrast 2000/4000 counts LCD display. They are all CAT IV 600V safety designed plus non-contact voltage detection & flashlight. 219 can measure 100A AC/DC current with 0.39" opening jaw .

216/218/219 Series CATIV Pocket Multimeter has the features to detect most electrical and HVAC problems.

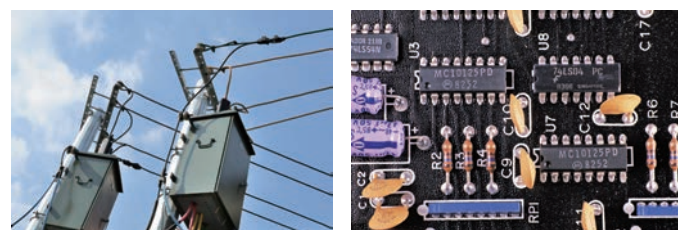
- CAT IV 600V safety rating for industrial applications
- Wide 600V measurement range
- True RMS for precise measurement of non-linear signals(218T/219)
- Resistance and frequency (218/219)
- Large, easy-to-read display
- Backlight for work in dimly lit areas
- Max to record signal fluctuations
- Display hold function (216/219)
- Manual and automatic ranging

Features	216	218	218T	219
Digital display counts	2000	4000	4000	4000
Safety design	*	*	*	*
True RMS	*	*	*	*
Auto Ranging	*	*	*	*
Data Hold	*	*	*	*
Auto Power Off	*	*	*	*
Flashlight	*	*	*	*
Backlight	*	*	*	*
Non-Contact Voltage detection	*	*	*	*
Pocket size	*	*	*	*

Specifications	Function	Max Range	Basic Accuracy	216	218	218T	219
Voltage DC	600V	±0.5%	*	*	*	*	
	600V	±1.0%	*	*	*	*	
Current DC	100A	±2.5%	200mA	200mA	200mA	*	
	100A	±3.0%	200mA	200mA	200mA	*	
Resistance	20MΩ	±0.8%	*	*	*	*	
	40MΩ	±0.8%	*	*	*	*	
Capacitance	4000uF	±3.0%		100uF	*	*	
Frequency	10kHz	±(0.8%±5d)		*	*	*	
NCV (VAC: 100V~600V)			*	*	*	*	
Diode Check			*	*	*	*	
Continuity Test			*	*	*	*	

Size(HxWxD): 105mm x 60mm x 38mm Weight: 145g

Accessories: Test leads, two "AAA" batteries and clamshell with canvas bag (219).



- 0.39" (10mm) Jaw opening (219)
- 100A AC/DC Current measurement (219)



Model 219



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



The pocket models 116, 118, 118B and 119 are double molded plastic housing with large high contrast 2000/4000 counts LCD display. They are all CAT IV 600V safety designed plus non-contact voltage detection & flashlight.

**Safety Conformance**

- EN61010-1 CATIII 1000V
- 200mA fused protection (118/118B)

Features	116	118	118B	119
Digital display counts	2000	2000	4000	2000
Safety design & Pocket size	*	*	*	*
Auto Ranging & Auto Power Off	*	*	*	*
Data Hold	*	*	*	*
Flashlight	*	*	*	*
Non-Contact Voltage detection	*	*	*	*

Specifications	Function	Max. Range	Basic Accuracy	116	118	118B	119
Voltage DC	600V	±0.5%	*	*	*	*	
	600V	±1.2%	*	*	*	*	
Current DC	200mA	±2.0%		*	*	*	
	200mA	±2.5%		*	*	*	
Resistance	2MΩ	±0.8%	*	*	*	*	
	20MΩ	±0.8%	*	*	40MΩ	*	
Capacitance	100uF	±(3.0%±5d)		*	*	*	
Frequency	100kHz	±(0.8%±5d)		*	*	*	
NCV (VAC: 100V~600V)			*	*	*	*	
Diode Check			*	*	*	*	
Continuity Test			*	*	*	*	

Size(HxWxD): 120mm x 55mm x 40mm Weight: 145g

Accessories: Test leads, two "AAA" batteries and clamshell.

- Non-Contact Voltage Detection
- Flashlight

- Double Molded housing
- CAT IV 600V
- Full range protection



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 118

**DT-946/946F Smart Digital Multimeter with Automatic Selection**

946 is a high performance smart digital multimeter with automatic selection DC/ACV, providing wide application in HAVC, factories, schools and at home, etc. All inputs are protected to EN 61010-1 CATIV 600V.

**Safety Conformance**

- EN61010-1 CATIV 600V
- Double molded plastic housing
- Full ranges protection

- Double Molded housing
- CAT IV 600V
- Automatic Selection

Features	946	946F
0.47" (12mm) Fork clamp sensor for AC 100A current measurement	*	*
Automatic DCV or ACV selection, Resistance, Continuity	*	*
4000 counts LCD display with backlight & flashlight	*	*
Automatic selection ranging	*	*
True RMS measurements	*	*
IP67 dust and water proof	*	*
Non-Contact ACV detection: 50V~600V	*	*
Auto Hold & Auto Power Off	*	*

Specifications	Function	Max. Range	Basic Accuracy	946	946F
Voltage DC	600V	±1.0%	*	*	
	600V	±1.0%	*	*	
Current DC	10.00A	±3.5%		*	
	100.0A	±3.0%		*	
Current AC	10.00A	±3.0%		*	
	100.0A	±3.0%		*	
Resistance	400kΩ	±2.0%	*	*	

Size(HxWxD): 150mm x 70mm x 48mm Weight: 200g

Accessories: Test leads, 2x1.5V AAA batteries, carrying case and gift box.

- IP67 dust and water proof
- Flashlight



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 946F

Features

- Fast respond time & PC calibration
- IP67 dust and water proof
- Bluetooth interface
- CATIII 1000V/CATIV 600V



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



- Remote measurement of voltage, current, resistance, capacitance and other electrical parameter
- Measurement data can be transmitted to smart phones via Bluetooth and visually analyzed and stored
- Users can annotate and save each measurement
- Data can be shared to e-mail and other platforms



970/971/972/973 are the new Professional Digital Multimeters which provide much safer measurements with double molded plastic housing design and IP67 waterproof function. 972/973 performance like datalogger & True RMS AC voltage and current measurements, 50,000 counts resolution and a 0.03% basic DC accuracy within the reach of more customers. The large LCD display with analog bargraph and backlit ensure that readings are easy to read under all circumstances.

All inputs are protected to EN 61010-1 CATIV 600V/CATIII 1000V.

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.5A/1000V fuses protection on current ranges



Bluetooth interface  
6 digits  
Protection

IP67 waterproof  
TrueRMS

Features

	970	971	972	973
50,000 counts high resolution (0.01mV, 0.01µA, 0.01Ω)			*	*
Large 50000 counts display with bargraph	6000 counts LCD display	6000 counts LCD display	Negativity LCD Display	OLED Display
AC+DC Measurement	*	*	*	*
9999 Readings memories		*	*	*
AC bandwidth (voltage/current)	3kHz	3kHz	10kHz	10kHz
Analog bargraph/segment	*/60	*/60	*/60	*/60
True RMS measurement	*	*	*	*
1000V input protection on all ranges	*	*	*	*
4-20mA process loop measurements with % reading		*	*	*
Data Hold/MAX/MIN recording mode	*	*	*	*
IP67 Waterproof and Auto Power Off	*	*	*	*
Wide capacitance range	*	*	*	*
Bluetooth interface with Meterbox pro software		*	*	*
Powerful Working light	*	*	*	*
Low pass filter (VFD)	VFD	VFD	LPF	LPF

Specifications

Function	Max. Range	Max.Resolution	Basic Accuracy
Voltage DC	1000 V	10µV	±0.03% (972/973) ±0.5% (970/971)
Voltage AC	1000V	10µV	±1.0%
Current DC	10A	0.01µA	±1.0%
Current AC	10A	0.01µA	±1.5%
Resistance	60MΩ	10mΩ	±0.3%
Duty Cycle	99.9%	0.1%	±1.2%
Frequency	10MHz	0.001Hz	±0.1%
Capacitance	60mF	10PF	±3.5%
Temperature	-50°C to 1300°C -58°F to 2372°F	0.1°C/°F	±1.0%
Diode Check	Test current <0.5mA MAX 3V		
Continuity Test			

Size(HxWxD): 183mm x 82mm x 55mm  
Weight: 447g  
Accessories: Test leads, 9V battery, Type K temperature probe, gift box with carrying case and Software



Model 971



Model 972



Model 973



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Safety Conformance**

- EN61010-1 CATIII 600V
- Double molded plastic housing
- Full ranges protection



Model 180



Model 180A



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Features	180	181	180A	181B
Digital display counts	4000	4000	6000	6000
CATIII 600V Safety rating	*	*	*	*
Data Hold	*	*	*	*
Auto Ranging & Auto Power Off	*	*	*	*
REL	*	*	*	*
Non-Contact 90-600VAC detection	*	*	*	*
Live test	*	*	*	*
LCD display with backlight	*	*	*	*
True RMS measurements	*	*	*	*
Temperature measurement	*	*	*	*

Specifications	Function	Max Range	Basic Accuracy	180	181	180A	181B
Voltage DC	600V	±0.5%	*	*	*	*	*
Voltage AC	600V	±1.0%	*	*	*	*	*
Current DC	600mA	±1.0%	*	*	*	*	*
Current AC	600mA	±1.5%	*	*	*	*	*
Resistance	60MΩ	±0.8%	*	*	*	*	*
	40MΩ	±1.2%	*	*	*	*	*
Capacitance	99.99mF	±3.0%	4mF	4mF	*	*	*
Temperature	760°C/1400°F	±3.0%	*	*	*	*	*
Frequency	100kHz	±1.2%	*	*	*	*	*
Duty Cycle	9.99%	±1.2%	*	*	*	*	*
Diode Check			*	*	*	*	*
Continuity Test			*	*	*	*	*

Size(HxWxD): 128mm x 63mm x 37mm Weight: 205g  
Accessories: Test leads, 2x1.5V "AAA" batteries, type K temperature probe (928) and gift box with carrying case.

DT-923B/928 Compact Digital Multimeters

923B/928 Series are compact multimeters with double molded plastic housing and over sized high contrast 2000/4000 counts LCD display. They're all CAT III rated for 600V and have auto-ranging function and provide 0.5% basic DCV accuracy.



Model 923B

- Double Molded Plastic Housing
- Built-in Non-Contact AC Voltage Detector

0.5% Basic DCV Accuracy



Model 928



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Features	923B	928
Digital display counts	2000	4000
CATIII 600V Safety rating	*	*
Data Hold	*	*
Auto Ranging	*	*
Auto Power Off	*	*
MAX / MIN Hold & REL	*	*
Non-Contact ACV detection	*	*
LCD display with backlight & flashlight	*	*
True RMS measurements	*	*
Low pass filter for accurate measurement of Variable frequency drive (VFD) signals	*	*

Specifications	Function	Max Range	Basic Accuracy	923B	928
Voltage DC	600V	±0.5%	*	*	*
Voltage AC	600V	±1.2%	*	*	*
Current DC	10A	±2.0%	*	*	*
Current AC	10A	±2.5%	*	*	*
Resistance	2MΩ	±0.8%	*	*	*
	40MΩ	±2.5%	*	*	*
Capacitance	40mF	±3.0%	*	*	*
Frequency	10MHz	±1.2%	*	*	*
Temperature	760°C/1400°F	±2.5%	*	*	*
Duty Cycle	9.99%	±1.2%	*	*	*
Diode Check			*	*	*
Continuity Test			*	*	*

Size(HxWxD): 146mm x 73mm x 45mm Weight: 237g  
Accessories: Test leads, 2x1.5V "AAA" batteries, type K temperature probe (928) and gift box with carrying case.

660/661/662/663/663H/663T Series are compact multimeters with high contrast 2000/4000 counts LCD display. They're all CAT III rated for 600V and provide 0.5% basic DCV accuracy.

- Safety Conformance**
- EN61010-1 CATIII 600V
  - Full ranges protection

0.5% Basic DCV Accuracy



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 660



Model 661



Model 662VA  
Color EBTN LCD Display



Model 663T

Features	660	661	662/662VA	663	663H	663T
Digital display counts with Backlight	2000	2000	2000	4000	4000	4000
Auto/manual ranging	manual	manual	Auto	Auto	Auto	Auto
True RMS measurements	*	*	*	*	*	*
Safety design & Holster for option	*	*	*	*	*	*
Data Hold	*	*	*	*	*	*
Auto Power Off	*	*	*	*	*	*
Type K temperature input	*	*	*	*	*	*

Specifications	Function	Max Range	Basic Accuracy	660	661	662/662VA	663	663H	663T
Voltage DC	600V	±0.5%	*	*	*	*	*	*	*
Voltage AC	600V	±1.0%	*	*	*	*	*	*	*
Current DC	10A	±1.5%	*	*	*	*	*	*	*
Current AC	10A	±2.0%	*	*	*	*	*	*	*
Resistance	2MΩ	±1.0%	*	*	*	*	*	*	*
	20MΩ		*	*	*	*	*	*	*
	40MΩ		*	*	*	*	*	*	*
Capacitance	4000μF	±3.0%	*	*	*	*	*	*	*
Frequency	10kHz	±1.0%	*	*	*	*	*	*	*
Duty Cycle	99.9%	±1.2%	*	*	*	*	*	*	*
Temperature	760°C/1400°F	±3.0%	*	*	*	*	*	*	*
Diode Check			*	*	*	*	*	*	*
Continuity Test			*	*	*	*	*	*	*
9V, 1.5V Battery Test			*	*	*	*	*	*	*

Size(HxWxD): 120mm x 67mm x 46mm Weight: 200g  
Accessories: Test leads, 1.5V AAA x 2 batteries, type K temperature probe (663H/663T) and Clamshell, holster (optional).



DT-913/913B/913T/915/915T series are compact meters with rubber holster housing and oversized high contrast 6000 counts LCD display (915/915T). They're all CAT III rated for 600V.

Low pass filter for accurate measurement of variable frequency drive (VFD) signals (915/915T)



Model 913B



Model 913T



Model 915T



• True RMS ( ) ( ) ( ) ( )  
• 0 auto LCD display ( ) ( )

**Safety Conformance**

EN61010-1 CATIII 600V  
Single molded plastic housing with holster  
Full ranges protection



CE  
EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Features	913B	913	913H	913T	915	915T
Range	Manual	Auto	Auto	Auto	Auto	Auto
LCD display	*	*	*	*	*	*
Backlight		*	*	*	*	*
Digital display counts	2000	4000	4000	4000	6000	6000
True RMS		*	*	*	*	*
Data Hold	*	*	*	*	*	*
Auto Power Off	*	*	*	*	*	*
Low battery indication	*	*	*	*	*	*
VFD					*	*

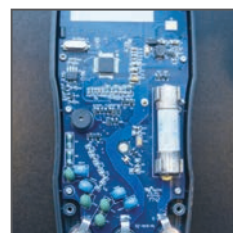
Specifications	Max. Range	Basic Accuracy	913B	913	913H	913T	915	915T
AC Voltage	600V	1.0% ± 5 counts	*	*	*	*	*	*
DC Voltage	600V	0.5% ± 3 counts	*	*	*	*	*	*
AC Current	10A	2.5% ± 5 counts		*	*	*	*	*
DC Current	10A	2.0% ± 3 counts	*	*	*	*	*	*
Resistance	60MΩ	2.5% ± 5 counts	2MΩ	40MΩ	40MΩ	40MΩ	*	*
Temperature	-20 to 800°C -4 to 1472°F	2.5% ± 3°C			*	*		*
Capacitance	40mF	2.5% ± 5 counts		*	4mF	*	60mF	60mF
Duty Cycle	1~99%			*		*	*	*
Frequency	10MHz	1.0% ± 2 counts		*	*	*	*	*
Continuity	50Ω		30Ω	*	*	*	*	*
Diode Check	MAX 3V		1.5V	*	2.0V	*	*	*

Size(HxWxD): 144mm x 72mm x 38mm

Weight: 214g

Accessories:

Test leads, 2 x 1.5V "AAA" batteries, type K temperature probe (913T/915T) and gift box with carrying case.



CE  
EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

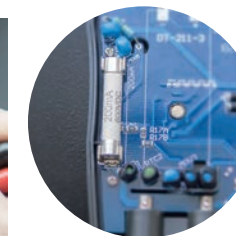


• EN 61010-1 CAT III 600V  
• True RMS ( ) ( ) ( ) ( )  
• 0 auto LCD display ( ) ( )

Low pass filter for accurate measurement of variable frequency drive (VFD) signals (213/215)

Features	211	211B	212	212H	212T	213	215
Range Model	Auto	Manual	Auto	Auto	Auto	Auto	Auto
LCD display	*	*	*	*	*	*	*
Backlight Controls	*	*	*	*	*	*	*
Digital display counts	2000	2000	4000	4000	4000	6000	6000
True RMS			*	*	*	*	*
Auto Power Off	*	*	*	*	*	*	*
Low battery indication	*	*	*	*	*	*	*
VFD						*	*

Specifications	Max. Range	Basic Accuracy	211	211B	212	212H	212T	213	215
AC Voltage	600V	1.0% ± 5 counts	*	*	*	*	*	*	*
DC Voltage	600V	0.5% ± 3 counts	*	*	*	*	*	*	*
AC Current	600mA	2.5% ± 5 counts	200mA		400mA	400mA	400mA	*	*
DC Current	600mA	2.0% ± 3 counts	200mA	200mA	400mA	400mA	400mA	*	*
Resistance	60MΩ	2.5% ± 5 counts	20MΩ	2MΩ	40MΩ	40MΩ	40MΩ	*	*
Temperature	-20 to 800°C -4 to 1472°F	2.5% ± 3°C				*	*		*
Capacitance	60mF	2.5% ± 5 counts			4000uF	4000uF	4000uF	*	*
Duty Cycle	1~99%				*	*	*	*	*
Frequency	10kHz	1.0% ± 2 counts			*	*	*	*	*
Continuity	50Ω		30Ω	30Ω	*	*	*	*	*
Diode Check	MAX 3V		1.5V	1.5V	*	2.0V	*	*	*



Model 211



Model 213



Model 215

Size(HxWxD): 132mm x 65mm x 35mm Weight: 205g

Accessories: Test leads, 2 x 1.5V "AAA" batteries, type K temperature probe (212H/212T/215) and gift box with carrying case.



Da b e m b d d

La g L C D i l s p g

Model 8908D

8908 Series is an innovative and reliable portable 3<sup>1</sup>/<sub>6</sub> digital multimeter with powerful measuring functions, including AC voltage and AC current True RMS sine wave measurement functions. It can measure up to 1000V AC/DC voltage, 20A AC/DC current, resistance, capacitance, frequency, diode, hFE, continuity and NCV, quickly and accurately distinguish neutral wire from strip wire. Temperature can also be measured and neutral and live wires and test leads detected. Equipped with sound and light alarm, torch, automatic backlight and other functions, can be used in a dark environment. It attracts users with its two-color durable case, modern appearance and versatility.

**Safety Conformance**

- EN61010-1 CAT III 600V, CAT II 1000V
- 1000V input protection on all ranges
- 20A/250V & 0.63A/250V(8908C, 8908D, 8909D, 8909) fuses protection on current ranges
- 20A/250V & 0.5A/250V(8908, 8909A) fuses protection on current ranges

**Features**

	8908H	8909H	8908	8908C	8908D	8909A	8909D	8909
6000 counts display with LCD backlight	4000	*	4000	*	*	4000	*	*
Auto Ranging		*					*	*
True-RMS measurements	*	*	*	*	*	*	*	*
Large capacitance range 100mF, fast measurement	4mF	*	4mF	*	*	4mF	*	*
Accurate measurement of 1000V voltage, 20A current measurement	*	*	*	*	*	*	*	*
Dual range NCV test which quickly identifies neutral and live wires	*	*	*	*	*	*	*	*
Auto Power Off	*	*	*	*	*	*	*	*
Flashlight and Auto backlight	*	*	*	*	*	*	*	*
hFE triode measurement function, can be on the transistor current amplification times detection;			*	*	*	*	*	*
Low battery indication	*	*	*	*	*	*	*	*
AC voltage frequency response (45~1000Hz)	*	*	*	*	*	*	*	*
Sampling rate 3 times/s	*	*	*	*	*	*	*	*
Double injection molding	*	*	*	*	*	*	*	*
LED check				*				
Analogue Bar Graph			*					*

**Specifications**

Function	Max. Range	Basic Accuracy	8908/8908H	8908C	8908D	8909A	8909D	8909/8909H
AC Voltage	6V/60V/600V/1000V 4V/40V/400V/1000V	±(1.0% ± 5) ±(1.0% ± 5)	*	*	*	*	*	*
DC Voltage	600mV/6V/60V/600V/1000V 400mV/4V/40V/400V/1000V	±(0.5% ± 3) ±(0.5% ± 3)	*	*	*	*	*	*
AC Current	60mA/600mA/20A 4mA/40mA/400mA/20A	±(2.5% ± 5) ±(2.5% ± 5)	*	*	*	*	*	*
DC Current	60µA/6mA/60mA/600mA/20A 4mA/40mA/400mA/20A	±(2.0% ± 3) ±(2.0% ± 3)	*	*	*	*	*	*
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ 400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ	±(2.5% ± 5) ±(2.5% ± 5)	*	*	*	*	*	*
Temperature	-20 to 1000°C/-4 to 1832°F 60nF/600nF/6µF/60µF/600µF/6mF/60mF/100mF	±(2.5% ± 3°C) ±(2.5% ± 5)	*	*	*	*	*	*
Capacitance	40nF/400nF/4µF/40µF/400µF/4mF	±(2.5% ± 5)	*	*	*	*	*	*
Duty Cycle	1~99%			*	*	*	*	*
Frequency	9.999Hz/9.999MHz	±(1.0% ± 2)	*	*	*	*	*	*

Size(HxWxD): 188mm x 88mm x 56mm Weight: 420g  
Accessories: Test leads, 1.5Vx3 "AAA" batteries, Type K temperature probe, gift box with carrying case.



Automatic backlight

Flashlight



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 8909H



hFE triode measurement function

LED check



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



- 4000 counts display with LCD backlight
- Data Hold
- Diode check & continuity test
- True RMS

**Specifications**

Function	Max. Range	Basic Accuracy	9905H	9908H
Voltage DC	1000 V	±0.5%	*	*
Voltage AC	700V	±1.2%	*	*
Current DC	20A	±2.5%	*	*
Current AC	20A	±3.0%	*	*
Resistance	40MΩ	±2.5%	200MΩ	*
Temperature	760°C/1400°F	±3.0%		*
Frequency	10MHz	±1.5%		*
Capacitance	400µF	±3.0%	*	*
Diode Check			*	*
Continuity Test			*	*

Size(HxWxD): 182mm x 82mm x 55mm  
Weight: 360g

Accessories: Test leads, 9V battery, Type K temperature probe (9908H) and gift box with carrying case.



Model 9905H



Model 9908H

DT-2005B/2008/2008H/2209/2006 3 1/2 Digital Multimeters

2005B/2008/2008H/2009/2006 have double molded plastic housing and oversized high contrast 2000/4000/6000 counts LCD display with backlight.

**Safety Conformance**

- EN61010-1 CAT III 600V, CAT II 1000V
- Full ranges protection

**Features**

Function	Max Range	Basic Accuracy	2005B	2008	2008H	2009	2009H	2006
Voltage DC	1000V	±(0.5%+2d)	*	*	*	*	*	*
Voltage AC	700V	±(1.0%+3d)	*	*	*	*	*	*
Current DC	20A	±(1.5%+3d)	*	*	*	*	*	*
Current AC	20A	±(2.0%+3d)	*	*	*	*	*	*
Resistance	20MΩ	±(1.2%+2d)	*	*	40MΩ	40MΩ	40MΩ	60MΩ
Capacitance	200µF	±(4.0%+3d)	*	*	400µF	100µF	99.99mF	6000µF
Frequency	20kHz	±(1.5%+5d)	*	*	9.999MHz	9.999MHz	9.999MHz	9.999MHz
Temperature	760°C/1400°F	±(3.0%+3d)	*	*	*	*	*	*
Diode Check	Open Voltage 2.8V dc		*	*	*	*	*	*
Continuity Test	Threshold 30Ω		*	*	50Ω	*	50Ω	*

Size(HxWxD): 195mm x 92mm x 38mm Weight: 380g

Accessories : Test Leads, Type K temperature probe (2008, 2009 & 2006), 9V battery, gift box and carrying case.



Da b e m b d d  
True RMS

EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

La g L C D i l s p g



Model 2005B



Model 2008

DMP-30/31/32/33 Pocket DMMs

33: 6000 counts, 10 functions including DCV, ACV, DCA, ACA Resistance, Capacitance, Frequency, Duty Cycle, Continuity, Diode test with Data Hold, Relative and MAX/MIN functions.

30/32: 4000 counts, 10 functions including DCV, ACV, DCA, ACA Resistance, Capacitance, Frequency, Duty Cycle, Continuity, Diode test with Data Hold and Relative functions.

31: 2000 counts, 5 functions with Data Hold, Max Hold and Auto Power Off.

Specifications

Function	Max Range	Basic Accuracy	30	31	32	33
Voltage DC	600V	±(1.0%±2d)	*	*	*	*
Voltage AC	600V	±(1.5%±5d)	*	*	*	*
Resistance	20MΩ	±(1.0%±2d)		*		
	40MΩ	±(1.0%±2d)	*		*	
Capacitance	60MΩ	±(1.0%±2d)				*
	100μF	±(3.0%±5d)	*		*	
	1000μF	±(3.0%±5d)				*
Frequency	9.999MHz	±(0.8%±5d)	*		*	*
Current DC	200mA	±(1.5%±2d)			*	*
Current AC	200mA	±(2.5%±5d)			*	*
Continuity	Audible threshold < 50Ω		*	*	*	*
Diode test	Test Current 0.6mA		*	*	*	*



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

Size(HxWxD): 115mm x 60mm x 16mm  
Weight: 82g  
Accessories:  
Test leads, Wallet style case and one CR 2032 button battery.



Ar eseth efusep b ectin (3 3)

DT-10/12/12T/16/16A Pocket Digital Multimeters



10: 4000 counts, 8 functions including DCV, ACV, DCA, ACA, Resistance, Continuity, Diode test with Data Hold, Low impedance and non-contact ACV detection.

16/16A: 6000 counts with Min/Max, Data hold and non-contact ACV detection.

- Non-Contact Voltage detection identifies live circuits (16/16A)
- Large high contrast 4000 counts LCD display with Analog bargraph (10)
- Large high contrast 6000 counts LCD display with Analog bargraph (16/16A)
- Auto Power off
- Relative, and Data Hold
- Built-in storage compartment for integrated test leads
- Over-range and low battery indication
- AC True RMS (12T)



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Specifications

Function	Max Range	Basic Accuracy	10	12	12T	16	16A
Voltage DC	600V	±(1.3%±2d)	*	*	*	*	*
Voltage AC	600V	±(2.3%±5d)	*	*	*	*	*
Resistance	40MΩ	±(2.0%±2d)	*	*	*	*	*
	60MΩ	±(1.0%±2d)				*	*
Capacitance	99.99mF	±(3.0%±5d)				*	*
Continuity	Audible threshold < 50Ω		*	*	*	*	*
Diode test	Test Current 0.6mA		*	*	3V	*	*
Frequency	9.999MHz	±(0.8%±5d)					*
Current DC	200mA	±(1.5%±2d)			100.0A	100.0A	*
	4000μA/6000μA	±(2.5%±5d)	*				*
Current AC	200mA	±(2.5%±5d)			100.0A	100.0A	*
	4000μA/6000μA	±(2.5%±5d)	*				*

Size(HxWxD): 126mm x 59mm x 32mm Weight: 124g  
Accessories: Test leads, Wallet style case and one 1.5V L44 button battery, 1.5V x 3 AAA (12/12T).



Model 16



Model 12



Rubber Protection



Oversized high contrast 4000/6000 counts LCD Display



Built-in Non-Contact Voltage Detector automatically detects a live wire when the red LED is lit

Ar eseth efusep b ectin (0 5)

DT-101/102/103/103B/105/107/108 Pocket DMMs

101/102 Series Pocket Digital Multimeters provide multifunction.

Features

	103B	101/103	102/105	107	108
2000 Counts digital display	*	*	*	*	*
Safety design CAT II 600V/ CATIII 300V	*	-/*	-/*	*	*
Double molded housing	*	-/*	-/*	*	*
Non-contact ACV detection		-/*	-/*	*	*
Data Hold		-/*	-/*	*	*
Auto Ranging				*	*
Auto Power Off				*	*
Type K temperature input				*	*

Specifications

Function	Max Range	Basic Accuracy	101/103/103B	102/105	107	108
Voltage DC	600V	±0.5%	*	*	*	*
Voltage AC	600V	±1.8%	*	*	*	*
Current DC	200mA	±1.0%	*	*	*	*
Resistance	2MΩ	±0.8%	*	*	20MΩ	20MΩ
Temperature	760°C/1400°F	±3.0%				*
Diode Check			*	*	*	*
Continuity Test			*	*	*	*

Size(HxWxD): 101/102: 100mm x 48mm x 26mm  
103/105/107/108: 108mm x 53mm x 32mm

Weight: 102g

Accessories:

Clamshell, Test leads and 12V battery.

DT-111/112/113 Pocket DMMs

111/113: 4000 counts, 10 functions including DCV, ACV, DCA, ACA Resistance, Capacitance, Frequency, Duty Cycle, Continuity and Diode test with Data Hold and Relative functions.

112: 2000 counts, 5 functions with Data Hold, Max Hold and Auto Power Off.

Specifications

Function	Max Range	Basic Accuracy	111	112	113
Voltage DC	500V	±(1.3%±2d)	*	*	*
Voltage AC	500V	±(2.3%±5d)	*	*	*
Resistance	20MΩ	±(2.0%±2d)			*
	40MΩ	±(1.0%±2d)	*		*
Continuity	Audible threshold < 50Ω		*	*	*
Diode test	Test Current 0.6mA		*	*	*
Capacitance	200μF	±(3.0%±5d)	*		*
Frequency	9.999MHz	±(0.8%±5d)	*		*
Current DC	400mA	±(1.5%±2d)			*
Current AC	400mA	±(2.5%±5d)			*

Size(HxWxD): 113mm x 61mm x 13mm  
Weight: 90g

Da b em old h u sing



Model 103



Model 103B



Model 107



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 111



Model 112



Accessories:  
111/112/113: Test leads, Wallet style case and one CR 2032 button battery.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033





Model R-100



CE EMC  
EN: 61326

- Features**
- Wide range Decade boxes for product design or calibration check
  - Heavy duty durable construction
  - Separate grounding terminal
  - Three binding posts permit isolated substitutions
  - 1% Resistance substitution from 1 to 11,111,110½
  - Seven Decade Ranges of Resistance
  - Values can be changed in 1½ increments
  - 0.3W resistors
  - 0.3½ internal zero resistance

**Size(HxWxD):** 140mm x 130mm x 48mm  
**Weight:** 190g  
**Accessories:** Clamshell

DT-155 Intelligent Semiconductor Analyzer



Model 155

**Size(HxWxD):** 102mm x 56mm x 24mm  
**Weight:** 91g  
**Accessories:** Two "AAA" batteries and clamshell

CE EMC  
EN: 61326

The intelligent semiconductor Component analyzer offers great features together with refreshing simplicity.

- Features**
- Automatic component type identification
  - Automatic pinout identification, just connect any way round.
  - Special feature identification such as diode protection and resistor shunts.
  - Gain measurement for bipolar transistors.
  - Leakage current measurement for bipolar transistors.
  - Silicon and Germanium detection for bipolar transistors.
  - Gate threshold measurement for Enhancement Mode MOSFETs.
  - Semiconductor forward voltage measurement for diodes.
  - LEDs and transistor Base-Emitter junctions.
  - Automatic and manual power-off.

DT-3216/3218/3219/3260/3280/3280B/3290 Pen-type Digital Multimeters

- 7 functions Pen-type Digital Multimeters
- Large 3-3/4 digital LCD display with Bargraph
- Full function indication
- Diode and audible continuity

**Specifications**

Function	Max range	Basic accuracy	3216	3218	3219	3260	3280	3280B	3290
Voltage DC	600V	±0.8%	*	*	*	*	*	*	*
Voltage AC	600V	±1.2%	*	*	*	*	*	*	*
Current DC		±1.5%		340mA	400mA	400mA	200mA		400mA
Current AC		±2.0%		340mA	400mA	400mA	200mA		400mA
Resistance	40MΩ	±3.0%	20MΩ	30MΩ	*	±1.0%	20MΩ	20MΩ	*
Capacitance	40mF	±3.5%				*			
Non-contact voltage:	50-600V				*		*	*	
Continuity:	<35Ω								
Diode test:	Test voltage max. 3.4V								

**Size(HxWxD):** 220mm x 40mm x 33mm  
**Weight:** 215g  
**Accessories:** Clamshell and button battery



Model 3280B



Model 3218

CE EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



3½ LCD display, pocket size and easy to use, wide measuring range for 9 kinds of battery such as button cell, AA, AAA, 9V etc, distinguishing the battery in good quality or not by setting different load resistance, the unit has no battery but powered by tested battery

**Specifications**

Battery Type	Load Current	Minimum Voltage for Good Indication
Button cell 1.5V	1mA	1.125V+/-0.09V
AAA-N-1.5V	50mA	1.125V+/-0.09V
AA-C-D-1.5V	150mA	1.125V+/-0.09V
Lithium 3V	100mA	2.25V+/-0.18V
6V	10mA	4.50V+/-0.36V
9V	10mA	6.75V+/-0.54V
12V	10mA	9.00V+/-0.72V
15V	10mA	11.25V+/-0.90V
22.5V	10mA	16.875V+/-1.35V



**Size(HxWxD):** 60mm x 116mm x 29mm  
**Weight:** 115g  
**Accessories:** Clamshell

CE EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 203B

SMD-100 Smart Electronic Components Tester

SMD-100 has a changeable head for automatic scan check DC/AC Voltage, components (resistance, capacitance, diode and continuity) and circuit fault. All inputs are protected according to EN 61010-1 CATIII 600V.

- Features**
- Automatic DCV or ACV selection, Capacitance, Resistance, Continuity and diode range
  - 6000 counts LCD display
  - Auto scan DC/AC Voltage, resistance, capacitance, diode and continuity
  - Data Hold/MAX/MIN recording mode
  - Auto Power Off
  - Wide capacitance range
  - Diode Check & Continuity Test

**Specifications**

Function	Range	Basic Accuracy
Voltage DC	600mV/6V/60V/600V	±0.8%
Voltage AC	600mV/6V/60V/600V	±1.0%
Resistance	600/60k/60k/600k/6M/60M	±1.0%
Capacitance	6n/60n/600n/6µ/60µ/600µ/6m/60m	±3.5%
Diode check	Open voltage 2.8Vdc, test current 1mA.	
Continuity test	Threshold 35 Ω	

**Size(HxWxD):** 184mm x 37mm x 23mm  
**Weight:** 76g  
**Accessories:** Two LR44(1.5V) button batteries and clamshell

CE EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033





Model 936

936 is a high performance smart digital multimeter with automatic selection DC/ACV, providing wide application in HAVC field, factories, schools and at home, etc.  
All inputs are protected to EN 61010-1 CATIII 600V/ CATII 1000V.

- Da b e M b d d h a s i n g
- CATI III
- Autm t i c S e l e c t i a



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Features**

Automatic DCV or ACV selection, Capacitance, Resistance, Continuity and Diode selection  
6000 counts LCD display  
Auto/manual ranging  
Data Hold/MAX/MIN recording mode  
Auto Power Off  
Wide capacitance range, diode check & continuity test

**Specifications**

Function	Max Range	Basic Accuracy
Voltage DC	600V	±0.5%
Voltage AC	600V	±1.0%
Resistance	40MΩ	±1.0%
Duty Cycle	99.9%	±1.2%
Frequency	10MHz	±1.0%
Capacitance	40mF	±3.5%

Size(HxWxD): 150mm x 70mm x 48mm Weight: 255g  
Accessories: Test leads, 9V battery, carrying case and gift box.

**DT-940/941 Compact Digital Multimeters**



940 Series are compact multimeters with double molded plastic housing and high contrast 4000 counts LCD display. They are all CAT III rated for 1000V.

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- Double molded plastic housing
- 1000V input protection on all ranges
- 10A/600V fuse input protection on current ranges



Model 940

Model 941



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032, EN: 61010-02-033



**Features**

	940	941
Digital display counts	4000	4000
Data Hold & display backlight	*	*
Auto Ranging & Auto Power Off	*	*
Type K temperature input	*	*

**Specifications**

Function	Max Range	Basic Accuracy	940	941
Voltage DC	600V	±0.5%	*	*
Voltage AC	600V	±1.2%	*	*
Current DC	10A	±2.5%	*	*
Current AC	10A	±3.0%	*	*
Resistance	40MΩ	±0.8%	*	*
Capacitance	100μF	±3.0%	*	*
Frequency	10MHz	±1.5%	*	*
Temperature	760°C/1400°F	±3.0%	*	*
Duty Cycle	9.99%	±1.2%	*	*
Diode Check & Continuity Test			*	*

Size(HxWxD): 150mm x 70mm x 48mm Weight: 255g  
Accessories: Test leads, 9V battery, Temperature Probe (941), carrying case and gift box.

**DT-925 Voltage & Current Calibrator / DMM with Voltage & Current Calibrator**



Model 925



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

9 Voltage/Current calibrator is a portable instrument for calibrating process devices and measuring process signals. It brings you into the field of precision measurement.

- Adjustable 0-24mA current source.
- Adjustable -199.9mV to +199.9mV DCA source.
- Current calibrator drives loads up to 500 ohms.
- The instrument measures a two-wire current loop.

**Specifications (standard source)**

Function	Range	Display Resolution	Accuracy
Current source	0-19.99mA	0.01mA	±(0.25%FS+1d)
	0-24mA	0.1mA	±(0.5%FS+1d)
DC mV source	-199.9mV to +199.9mV	0.1mV	±(0.25%FS+1d)

**Specifications (measurement)**

Range	Resolution	Accuracy
0-19.99mA	0.01mA	±(0.25%FS+1d)
0-24mA	0.1mA	±(0.5%FS+1d)

Size(HxWxD): 150mm x 70mm x 48mm Accessories: Test leads, 9V battery and gift box with carrying case.  
Weight: 236g



9930 is 11,000 Counts LCR Meter  
9931 is 11,000 Counts digital multimeter with LCR function

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V (9931)
- Full ranges protection

IP67 sta b t i e r p f

Da b e M b d d h a s i n g



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 9931



Model 9930



**Features**

	9930	9931
Digital display counts	11,000	11,000
Data Hold & Auto Ranging	*	*
MAX/MIN recording mode	*	*
Auto Power Off	*	*
DMM + LCR		*

**Specifications (Multimeter)**

Function	Max Range	Basic Accuracy	9930	9931
Voltage DC	1000V	±0.5%		*
Voltage AC	1000V	±0.8%		*
Current DC	1.1A	±1.2%		*
Current AC	1.1A	±1.8%		*
Frequency	10MHz	±1.5%		*
Duty Cycle	9.99%	±1.2%		*
Diode Check			*	*
Continuity Test			*	*

**Specifications (LCR)**

Function	Max Range	Max Resolution	Basic Accuracy
Resistance	110.00MΩ	0.01Ω	±1.2% of rdg ±5 digits
Capacitance	110.00uF	1pF	±3.0% of rdg ±30 digits
Inductance	20H	1uH	±(2%+5)

Size(HxWxD): 182mm x 82mm x 55mm Weight: 360g  
Accessories: Test leads and 9V battery, gift box with carrying case.

**DT-9935 Professional LCR Meter**

9935 LCR Meter features with innovative automatic selection technology, automatically measuring L,C and R with Q, D and θ by just turn on the meter. The testing frequency is up to 10kHz and it can output up to 100kHz test frequency. It provides high accuracy with four or five terminal Kelvin measurements.

- Overload Indication
- Lower Battery Indication
- Auto Power Off

**Specifications**

<b>Inductance</b>	
Ranges	20uH-2000H
Resolution	0.001uH
Basic Accuracy	±(0.2+5d)
<b>Capacitance</b>	
Ranges	20pF-20mF
Resolution	0.001pF
Basic Accuracy	±(0.2+3d)
<b>Resistance</b>	
Ranges	20Ω-2000MΩ
Resolution	0.001Ω
Basic Accuracy	±(0.2+2d)
<b>DC Resistance</b>	
Ranges	20Ω-2000MΩ
Resolution	0.001Ω
Basic Accuracy	±(0.2+2d)
<b>Q (quality)</b>	
Ranges	0.000-999
Resolution	0.001
<b>D (dissipation)</b>	
Ranges	0.000-999
Resolution	0.001
<b>Theta</b>	
Ranges	±90 degree
Resolution	1 degree

Da b e M b d d h a s i n g



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

Size(HxWxD): 220mm x 96mm x 60mm  
Weight: 360g  
Accessories: Test leads and 6 x 1.5V "AA" batteries, gift box with carrying case.



Model 21

21 Digital Multifunction Environment Meter have been designed to combine the functions of Sound Level Meter, Light Meter, Humidity Meter, Temperature Meter and digital multimeter. it is an ideal Multifunction Environment Instrument with scores of practical applications for professional and home use.

CEC EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Applications

- Plant/General Maintenance
- HVAC/R
- Transportation/Automotive
- Cooling and Reheating
- Servicing areas
- Food service Equipment
- Cold storage

Specifications

Function	Max Range	Resolution	Basic Accuracy
Light	20,000Lux	0.1Lux	±0.5%±10d
Sound	100dB	0.1dB	±3.5dB
Humidity	95%RH	0.1%RH	±5%RH
Temperature	1300°C	0.1°C	±3%±1d
Voltage DC	600V	0.1mV	±0.5%±2d
Voltage AC	600V	100mV	±1.2%±10d
Current DC	10A	0.1uA	±1.0%±2d
Resistance	2MΩ	0.1Ω	±0.8%±2d

Size(HxWxD): 121mm x 60.6mm x 40mm Weight: 280g  
Accessories: Rubber holster, 9V battery, Test leads and K-Type temperature probe..

DT-991 Series & 200 Series/9932FC High Performance Digital Multimeters



Model 204



Model 991

Specifications

Function	Max Range	Basic Accuracy	991/200	992/201	993/202	202T	204
Voltage DC	600V	±(0.8%±2d)	*	*	*	*	*
Voltage AC	600V	±(1.2%±10d)	*	*	*	*	*
Current DC	10A	±(1.2%±2d)	*	*	*	*	*
Current AC	10A	±(1.8%±7d)	*	*/-	*	*	*
Resistance	2000Ω	±(0.8%±2d)	*	*	20MΩ	*	*
	40MΩ	±(0.8%±2d)	*	*		*	*
Temperature	760°C/1400°F	±(3.0%±3d)			*	*	*
Duty Cycle	0.1%~99.9%	±(1.2%±2d)		*	*	*	*
Frequency	9.999MHz	±(1.5%±4d)		*	*	*	*
Capacitance	200uF	±(2.5%±5d)		*	*	*	*
	40mF	±(2.5%±5d)		*	*	*	*
Diode Check	Open voltage 2.8Vdc		*	*	*	*	*
Continuity	Threshold 30Ω		*	*	*	*	*
Bat. Test	9V(6mA); 1.5V(100mA)		*	*	*	*	*

991 Series:

Size(HxWxD): 121.5mm x 60.6mm x 40mm  
Weight: 150g

Accessories: Test leads, Holster and 9V battery, clamshell.

200 Series:

Size(HxWxD): 146mm x 66.2mm x 41.5mm  
Weight: 200g

Accessories: Test leads, K-type temperature probe (201, 202, 202T, 204, 204T) and 9V battery, gift box.

Specifications (9932FC)

Function	Max Range	Min Resolution	Basic Accuracy
Voltage DC	1000V	0.1mV	±(1.2%±2d)
Voltage AC	750V	0.1mV	±(0.8%±3d)
Current DC	20A	0.1uA	±(1.5%±3d)
Current AC	20A	0.1uA	±(1.8%±5d)
Resistance	40MΩ	0.1Ω	±(1.0%±2d)
Capacitance	100uF	10pF	±(3.5%±5d)
Frequency	9.999MHz	0.001Hz	±(1.2%±3d)
Duty Cycle	99.9%	0.1%	±(1.2%±2d)
Temperature	1000°C/1832°F	0.1°C/°F	±(3%±2°C/°F)
Diode Check	1.5VDC test 0.3mA current		
Continuity Check	Threshold 30Ω, continuity beeper 2.7kHz		

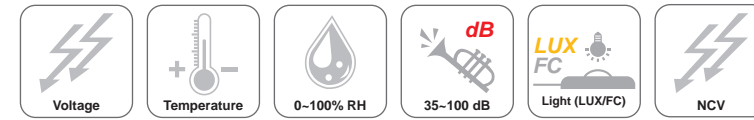
Size(HxWxD): 197mm x 88.4mm x 41.2mm  
Weight: 635g

Accessories: Rubber holster, Test leads, K-type temperature probe, 9V battery, RS-232 PC cable and Software diskette, Gift box with carrying case.



Model 9932FC

CEC EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



CEC EMC & LVD

EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 51

The model 61 is 6 in 1 Digital Multimeter with Environment Measurement. It has been designed to combine the functions of Sound Level Meter, Light Meter, Humidity Meter, Temperature Meter & Non-contact AC voltage detector. The model 51 is without temperature (°F) range. They are ideal Multifunction Environment & DMM Instruments with scores of practical applications for professional and home use. The Sound Level function can be used to measure noise in factories, schools, offices and home, etc, checking acoustics of studios, auditoriums and hi-fi installations. The Light function is used to measure illuminance in the field. It is fully cosine corrected for the angular incidence of light. The sensitive component of light used in the meter is a very stable, long life silicon diode. The Humidity/Temperature uses a humidity/semiconductor sensor and K type thermocouple. The DMM function include ACV, DCV, ACA, DCA Resistance, Capacitance, Frequency, Duty Cycle, Diode, Continuity test and Non-contact AC voltage detector.

Specifications

Function	Max Range	Max. Resolution	Basic Accuracy
Light	20,000 Lux	0.1 Lux	±5%±10d
	40,000 Lux		
Sound	100dB	0.1dB	±3.5dB
Humidity	99%RH	0.1%RH	±3.5%RH
Temperature	-20 ~ 750 °C	0.1° up to 400°, 1° over 400°	±3%±3°C
	-4 ~ 1400°F		
NCV	50-1000V		
Voltage DC	600V	0.1mV	±0.5%±2d
Voltage AC	600V	0.1mV	±1.2%±10d
Current AC	10A	0.1uA	±1.0%±2d
Current DC	10A	0.1uA	±1.0%±2d
Resistance	40MΩ	0.1Ω	±0.8%±2d
Capacitance	100uF	0.01nF	±3.5%
Frequency	10MHz	0.001Hz	±1.5%
Duty Cycle	99.9%	0.1%	±1.2%
Diode Check	Open voltage 2.8VDC; Test current 1mA		
Continuity Test	Threshold 30Ω		

Size(HxWxD): 170mm x 79mm x 50mm Weight: 342g  
Accessories: 9V battery, Test leads and K-Type temperature probe. Infrared Temperature Probe (Option IR-82)



Model 61

• B lueto hi nterfa e  
• P CC h ib t u ia

• IP67 sta d t u erp f  
• TrueR MS



9626/9627/9628 are Professional Digital Multimeters which provide much safer measurements with double molded plastic housing and IP67 waterproof design. 9628 perform like datalogger & True RMS AC voltage and current measurements, 50,000 counts resolution and a 0.03% basic DC accuracy within the reach of more customers. The large LCD display with analog bargraph and backlight ensure that readings are easy to read under all circumstances.

All inputs are protected to EN 61010-1 CATIV 600V/CATIII 1000V.  
Backlight for LCD, knob Switch  
Built-in Infrared Thermometer

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.5A/1000V fuses protection on current ranges



Model 9626 Meterbox Pro



Backlight for knob Switch



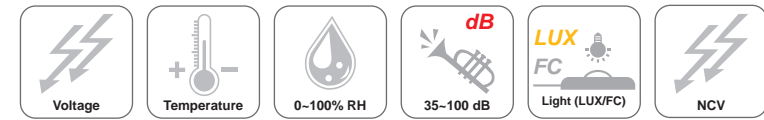
InfraRed Thermometer sensor



Features	9626	9627	9628
50,000 counts high resolution (0.01mV, 0.01µA, 0.01Ω)			*
Larger 50000 counts display with bargraph	6000 counts LCD display	6000 counts LCD display	Negativity LCD Display
AC+DC Measurement	*	*	*
9999 Readings memories	*	*	*
AC bandwidth (voltage/current)	3kHz	3kHz	10kHz
Analog bargraph/segment	*/60	*/60	*/60
True RMS measurement	*	*	*
1000V input protection on all ranges	*	*	*
4-20mA process loop measurements with % reading	*	*	*
Backlight for LCD, knob Switch	*	*	*
Data Hold/MAX/MIN recording mode	*	*	*
IP67 Waterproof and Auto Power Off	*	*	*
Wide capacitance range	*	*	*
Bluetooth interface with Meterbox pro software	*	*	*
Powerful Working light	*	*	*
Built-in InfraRed Thermometer	*	*	*
Low pass filter (VFD)	VFD	VFD	LPF

Specifications	Max. Range	Max. Resolution	Basic Accuracy
Voltage DC	1000 V	10µV	±0.03% (9628) ±0.5% (9626/9627)
Voltage AC	1000V	10µV	±1.0%
Current DC	10A	0.01µA	±1.0%
Current AC	10A	0.01µA	±1.5%
Resistance	60MΩ	10mΩ	±0.3%
Duty Cycle	99.9%	0.1%	±1.2%
Frequency	10MHz	0.001Hz	±0.1%
Capacitance	60mF	10PF	±3.5%
IR Temperature	-20 ~ 750 °C/ -4 ~ 1400°F	0.1° up to 400°, 1° over 400°	±1%±1°C/1.8°F
Temperature (Type K)	-50°C to 1300°C -58°F to 2372°F	0.1°C/°F	±1.0%
Diode Check	Test current <0.5mA MAX 3V		
Continuity Test			

Size(HxWxD): 161mm x 76mm x 51mm Weight: 342g Accessories: Test leads, 9V battery, Type K temperature probe, gift box with carrying case.



The model 61H is 6 in 1 Digital Multimeter with Environment Measurement. It has been designed to combine the functions of Sound Level Meter, Light Meter, Humidity Meter, Temperature Meter & Non-contact AC voltage detector.

- The Sound Level function can be used to measure noise in factories, schools, offices and home, etc, checking acoustics of studios, auditoriums and hi-fi installations.
- The Light function is used to measure illuminance in the field. It is fully cosine corrected for the angular incidence of light. The sensitive component of light used in the meter is a very stable, long life silicon diode. The Humidity/Temperature uses a humidity/semiconductor sensor and K type thermocouple.
- The DMM function include ACV, DCV, ACA, DCA Resistance, Capacitance, Frequency, Duty Cycle, Diode, Continuity test and Non-contact AC voltage detector.
- Backlight for LCD, knob Switch
- Built-in Infrared Thermometer

Specifications	Max Range	Max. Resolution	Basic Accuracy
Light	20,000 Lux	0.1 Lux	±5%±10d
	40,000 Lux		
Sound	100dB	0.1dB	±3.5dB
Humidity	99%RH	0.1%RH	±3.5%RH
Temperature	-20 ~ 750 °C/ -4 ~ 1400°F	0.1° up to 400°, 1° over 400°	±3%±3°C
			±3%±5°F
IR Temperature			±1%±1°C/1.8°F
NCV	50-1000V		
Voltage DC	600V	0.1mV	±0.5%±2d
Voltage AC	600V	0.1mV	±1.2%±10d
Current AC	10A	0.1uA	±1.0%±2d
Current DC	10A	0.1uA	±1.0%±2d
Resistance	40MΩ	0.1Ω	±0.8%±2d
Capacitance	100uF	0.01nF	±3.5%
Frequency	10MHz	0.001Hz	±1.5%
Duty Cycle	99.9%	0.1%	±1.2%
Diode Check	Open voltage 2.8VDC; Test current 1mA		
Continuity Test	Threshold 30Ω		

Size(HxWxD): 161mm x 76mm x 51mm Weight: 342g

Accessories: 9V battery, Test leads and K-Type temperature probe, gift box.

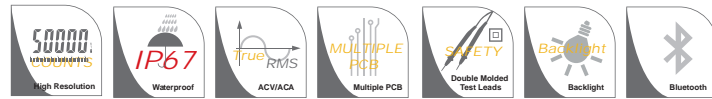


Model 61H



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033





EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 9990

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

**Features**

- 50,000 counts 320 x 240 TFT color LCD display
- 20MHz bandwidth and 50ms/s realtime sample rate
- Logging function with trend capture and over 10,000 data logging
- Free software to calibrate accuracy
- 100kHz bandwidth (voltage/current)
- AC, AC+DC True RMS measurements
- 0.025% DCV accuracy with fully PC calibration
- Save measurements, records events and trends
- 20 times/sec. A/D convert fast sampling time
- Peak capture (records transients as fast as 250µs)
- Max/Min/Avg with time stamp (records signal fluctuation)
- Motor winding and low ohm (50Ω) measurement range
- Low pass filter
- Bluetooth interface to smartphone / PC

**Specifications**

**Oscilloscope Functions**

Display Size	3.5" color LCD; 320 x 240 pixels
Bandwidth	10MHz
Real time sample rate	50MS/s
Risetime	10ns
Channel	1
Vertical Sensitivity	50mV/div to 200V/div
Vertical Resolution	8 bits
Trigger Mode	Free Run, falling edge, rising edge
Trigger Source	Internal
Trigger Coupling	AC/DC
Input Impedance	1MΩ/15pF
Max Input Voltage	1000Vp-p
Cursor Measurement	Voltage and time/ Frequency

**True RMS Multimeter Functions**

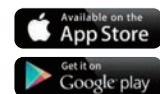
Function	Max	Max.resolution	Accuracy
Voltage DC	1000V	1µV	±(0.025%+5)
Voltage AC	1000V	1µV	±(0.3%+25)
Current DC	10A	0.01µA	±(0.15%+2)
Current AC	10A	0.01µA	±(0.6%+5)
Temperature	-50°C to 1000°C	0.1°C	±(1.0%+2.5°C)
Resistance	50MΩ	0.01Ω	±(0.05%+2)
Capacitance	10mF	0.001nF	±(2.0%+40)
Frequency	10MHz	0.01Hz	±(0.01%+10)
Diode & Continuity	Yes		
Bluetooth Interface	Smartphone/PC		
Power Supply	6 hours Li-ion rechargeable battery; AC Adaptor		

Size(HxWxD): 220mm x 91mm x 56mm Weight: 630g

Accessories: Test leads, Li-ion battery, Type K temperature probe, Bluetooth and Software, gift box with carrying case.

**Bluetooth interface to smartphone / PC**

- Remote measurement of voltage, current, resistance, capacitance and other electrical parameter
- Measuring data can be transmitted to smart phones via Bluetooth and visually analyze and store
- Users can annotate and save each measurement
- Data can be shared by e-mail and other platforms



9998 Professional True RMS Industrial Digital Multimeter with oscilloscope functions and TFT color LCD display, providing fast A/D converting sampling time, high accuracy, built-in datalogging and Trend Capture features. Android Platform permits smart multifunctions such as firmware up grade, PC calibration etc.

Meterbox Pro software & cloud server support to transfer the measured data to customer's smartphone to edit and store.

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges



**Features**

- Large 50,000 count 320 x 240 TFT color LCD display
- 20MHz/50MS/s bandwidth/Real time sample rate
- Logging function with Trend Capture for easy review of logged data
- Bluetooth PC interface for easy data transfer & accuracy calibration
- 100kHz ACV, ACA bandwidth
- AC, AC+DC true-RMS measurements
- 0.025% DCV accuracy with Fully PC Calibration
- Save measurements, records events and trends
- 20 Times/sec. A/D convert fast sampling time
- Peak capture (records transients as fast as 250µs)
- Min/Max/Average with Time stamp (records signal fluctuations)
- Motor winding and low ohm (50Ω) measurement range
- Low pass filter
- Bluetooth interface to smartphone / PC.
- Android Platform permits smart multifunctions such as updating software on line, PC calibration etc

**Specifications**

**Oscilloscope Functions**

Display Size	3.5" color LCD; 320 x 240 pixels
Bandwidth	20MHz
Real time sample rate	50MS/s
Risetime	10ns
Channel	1
Vertical Sensitivity	50mV/div to 200V/div
Vertical Resolution	8 bits
Trigger Mode	Free Run, falling edge, rising edge
Trigger Source	Internal
Trigger Coupling	AC/DC
Input Impedance	1MΩ/15pF
Max Input Volatage	1000Vp-p
Cursor Measurement	Voltage and time/ Frequency

**True RMS Multimeter Functions**

Function	Maximum	Max. resolution	Accuracy
Voltage DC	1000V	1µV	±(0.025% + 5)
Voltage AC	1000V	1µV	±(0.4% + 40)
Current DC	10A	0.01µA	±(0.15% + 2)
Current AC	10A	0.01µA	±(0.6% + 5)
Temperature	-200°C to 1350°C	0.1°C	±(1.0% + 2.5°C)
Resistance	50MΩ	0.01Ω	±(0.05% + 2)
Capacitance	10mF	0.001nF	±(1.0% + 5)
Frequency	10MHz	0.01Hz	±(0.005% + 1)
Diode and Continuity	Yes		
PC Interface	Bluetooth		
Power Supply	6 hours Li-ion rechargeable battery; AC Adaptor/charger		

Size(HxWxD): 220mm x 96mm x 60mm Weight: 631g

Accessories: Test leads, Li-ion battery, Type K temperature probe, Bluetooth and Software, gift box with carrying case.



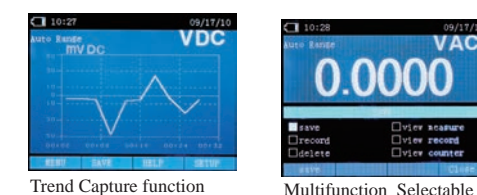
EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

TFT color LCD display  
Bluetooth  
PC Calibration  
Android Platform



Model 9998

10MHz Oscilloscope Function Fast response time



Trend Capture function Multifunction Selectable