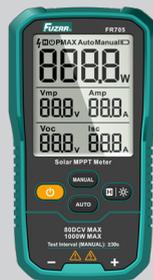




PRODUCT
CATALOGUE



THE COMPANY INTRODUCES

Established in 2015, FUZZR Technology is a national high-tech enterprise specializing in the integration of R&D, production, and global distribution of precision power system testers and electrical measurement instruments.

As a trusted partner to leading international and domestic brands, we deliver comprehensive OEM/ODM solutions supported by vertically integrated manufacturing capabilities. Our 8,000-square-meter advanced facility produces over 70,000 high-precision testing devices monthly, all rigorously certified to meet global compliance standards including CE, FCC, ISO 9001:2015, RoHS, and CMC. The company maintains technological leadership through continuous innovation, holding multiple technical invention patents. Our commitment to metrological accuracy is validated by national certification authority approvals and comprehensive quality management systems.

Fuzzr company specializes in manufacturing a comprehensive range of precision electrical testing instruments, including:

- Underground Utilities Locator & Cable Identifiers
- Transformer turns ratio testers (TTR)
- Insulation resistance testers
- Loop resistance tester
- Earth/Ground Resistance Testers
- Power Quality & Power meter
- DC Resistance/Winding Testers
- High/Low Voltage Clamp Meters&Voltage detector
- Digital Multimeters &Digital clamp multimeters

Our products undergo rigorous 100% full-function aging tests to ensure operational safety, High measurement accuracy, and extended service life. Designed with user-centric interfaces and advanced diagnostic capabilities, these instruments combine military-grade durability with laboratory-grade precision.

With over 80% repeat customer retention spanning 5+ years, our solutions have been implemented across 80 countries through a network of 30 authorized distributors. We offer comprehensive OEM solutions including custom calibration, multi-language interfaces, and regional compliance adaptations.

As a trusted solutions provider, our products and services are extensively **applied across four key sectors:**

- Energy & Infrastructure: Power grid systems, coal mining, and petroleum operations
- Industrial Manufacturing: Chemical processing, metallurgical plants, and construction projects
- Transportation Networks: Railway systems and communication infrastructures
- Defense Applications: Mission-critical power management systems

Core Organizational Strengths:

Our vertically integrated structure combines:

- R&D Engineering Unit driving technological innovation
- QA Division maintaining ISO-certified quality standards
- Technical Support Team with field-proven expertise
- Advanced Manufacturing Facilities utilizing Industry 4.0 practices

Differentiated Value Proposition:

- Maintain ISO 9001:2015 quality management system
- Hold 30+ patents in power system optimization technologies
- Achieve 98.7% client retention rate through continuous improvement programs
- Implement employee-centric talent development initiatives

Partnership Commitment:

We are committed to fostering mutually beneficial partnerships through:

- Collaborative solution development
- Transparent business practices
- Long-term value co-creation
- Shared growth roadmapping

Let's discuss how our 360° expertise in power system management can enhance your operational resilience and cost efficiency.

THE COMPANY ENVIRONMENT



HONORARY CERTIFICATE



THE EXHIBITION COMPANY



FIELD APPLICATION



FR Series

◆	FR101	Series Miniature Digital Multimeter	1
◆	FR133	Series Compact Digital Multimeter	2
◆	FR15B+/FR17B+	Auto-Ranging Digital Multimeter	4
◆	FR890	Series Digital Multimeter	5
◆	FR17	Series Digital Multimeter	6
◆	FR705	Series Photovoltaic Power Tester	7
◆	FR200	Series Clamp Digital Multimeter	8
◆	FR206E	DC Power Clamp Multimeter	10
◆	FR207	Series Clamp Digital Multimeter	11
◆	FR210	Series Miniature Clamp Digital Multimeter	12
◆	FR205	Series Digital Clamp Multimeter	13
◆	FR030A	AC Clamp-on Current Sensor	14
◆	FR040AD	Current Clamp	15
◆	FR2000+	Series Clamp Ground Resistance Tester	16
◆	FR1050	Series Flexible Clamp Current Tester	17
◆	FR2050	Series Flexible Clamp Power Meter	18
◆	FR2060	Non-contact Phase Sequence Tester	19
◆	FR3010	Digital Earth Resistance Tester	20
◆	FR3010E	Ground Resistance Soil Resistivity Tester	21
◆	FR3015	Insulation Resistance Tester	22
◆	FR3025	Series Insulation Resistance Tester	23
◆	FR3060	Series Low Resistance Tester	24
◆	FR9032	Leakage Switch Tester	25
◆	FR90	Multifunction Non-Contact Induction Test Pen	26

CONTENT



FR101 Series Miniature Digital Multimeter



- ★ 4000 counts True RMS
- ★ DC Voltage: 600V
- ★ AC Voltage: 600V
- ★ 40MΩ resistance measurement
- ★ 4000uF capacitance measurement
- ★ 400uA~400mA AC / DC current measurement
- ★ 10A AC / DC current measurement
- ★ 40KHz Frequency measuring Capability
- ★ Battery Test 1.5V / 9V
- ★ Continuity Buzzer / Diode
- ★ NCV, Red LED Flash
- ★ CAT II 600V / CAT III 300V

PRODUCT APPLICATION

Suitable for professional electrician and electronic technology maintenance and repair, it is an essential and preferred multimeter measuring tool for self-taught electronic technology enthusiasts, families, and factories.

SPECIFICATIONS

Function / Model	FR101A	FR101E	Accuracy
DC Voltage (V)	200mV / 2V / 20 V / 200V / 600V	400mV / 4V / 40 V / 400V / 600V	±(0.5%+3)
AC Voltage (V)	2V / 20V / 200V / 600V	4V / 40V / 400V / 600V	±(0.8%+3)
ACV / Bandwidth (Hz)	400Hz	1kHz	-
DC Current (A)	2000uA / 20mA / 200mA	400uA / 40mA / 400mA	±(2%+5)
AC Current (A)	-	400uA / 40mA / 400mA	±(2%+5)
Frequency (ACV Hz)	-	40kHz	±(0.5%+5)
Resistance (Ω)	200Ω / 2KΩ / 20KΩ / 200KΩ 20MΩ	400Ω / 4KΩ / 40KΩ / 400KΩ 4MΩ / 40MΩ	±(1%+5) ±(2%+5)
Capacitance (F)	-	40nF ~ 400nF ~ 400uF 4000uF	±(4%+5) ±(8%+5)
Battery Test	1.5V / 9V	1.5V / 9V	±(2.5%+5)

FEATURES

Display Counts	2000	4000
Auto Range	Manual	Auto
True RMS	-	●
NCV(Red LED Flashing)	-	●
AC Live	-	●
Connuity / Diode	●	
Auto power off	●	
Backlight / Torch	●	
Power	AAA1.5V×2	
Category Ratings	CAT III 300V CAT II 600V	

FR133 Series Compact Digital Multimeter

FR133D/FR133C/FR133E

- ★ DC Voltage: 600V 1000V (FR133E)
- ★ AC Voltage: 600V 750V (FR133E)
- ★ 40000uF capacitance measurement (FR133E)
- ★ 40KHz Frequency measuring capability (FR133E)
- ★ 20MΩ / 40MΩ resistance measurement
- ★ 200uA / 400mA AC/DC current measurement
- ★ 10A AC / DC current measurement
- ★ 600A AC / DC Current Clamp (1A=1mV) (FR133E)
- ★ Battery Test 1.5V / 9V
- ★ True RMS, Buzzer / Diode, NCV / LIVE, Red LED Flash



PRODUCT APPLICATION

Used for professional electrician and electronic technology maintenance and repair, school electronic technology training, product color dual color injection molding, sturdy and durable, it is a must-have and preferred multimeter measuring tool for self-taught electronic technology enthusiasts, families and factories.

SPECIFICATIONS

Function / Model	FR133D	FR133C	FR133E	Accuracy
AC Voltage (V)	600V 2V / 20V / 200V	600V 2V / 20V / 300V(AUTO)	750V 4V / 40V / 400V (AUTO)	±(1%+5) ±(0.8%+3)
DC Voltage (v)	600V 2V / 20V / 200V 200mV	600V 2V / 20V / 300V(AUTO) 200mV	1000V 4V / 40V / 400V (AUTO) 400mV	±(0.5%+3)
ACV / Bandwidth (Hz)	400Hz	400Hz	400HZ	-
Frequency (Hz)	-	-	10HZ ~ 40KHZ	±(0.5%+5)
DC Current (A)	2000uA / 20mA / 200mA - 10A	2000uA / 20mA / 200mA - 10A	400uA 4mA / 40mA / 400mA (AUTO) 10A	±(1%+5) ±(1%+5) ±(2%+5)
AC Current (A)	2000uA / 20mA / 200mA - 10A	2000uA / 20mA / 200mA - 10A	400uA 4mA / 40mA / 400mA (AUTO) 10A	±(1%+5) ±(1%+5) ±(2%+5)
Resistance (Ω)	- 200Ω / 2KΩ / 20KΩ 200KΩ / 20MΩ	- 200Ω / 2KΩ / 20KΩ 200KΩ / 20MΩ	400Ω 4KΩ / 40KΩ / 400KΩ / 20MΩ (AUTO) 4MΩ / 40MΩ	±(1%+5) ±(1%+5) ±(2%+5)
Battery Test	1.5V / 9V	1.5V / 9V	1.5V / 19V	±(2.5%+5)
Temperature (°C)	-	(-40°C ~ 1000°C)	(-40°C ~ 1000°C)	±(1.5%+4)
Temperature (°F)	-	(-58°F ~ 1832°F)	(-58°F ~ 1832°F)	±(2%+4)
Capacitance (F)	-	-	40nF ~ 400nF ~ 400uF 4000uF ~ 40000uF	±(4%+5) ±(8%+5)
AC/DC600A (Current Clamp)	-	-	0.1A~600.0A (1A=1mV AC / DC)	±(3%+5)

FEATURES

Display Counts	2000	2000	4000
Auto Range	Manual	Semi-Automatic	Semi-Automatic
True RMS	-	●	●
Connuity / Diode		●	
Backlight / Torch		●	
Power	AA1.5V×2		
Category Ratings	CAT III 300V CAT II 600V		

FR133 Series Compact Digital Multimeter *FR133F/FR133G*

- ★ Dual color injection molding, sturdy and durable
- ★ DC / AC Voltage: 1000V (FR133F 600V)
- ★ 40MΩ resistance measurement
- ★ 40000uF capacitance measurement
- ★ 400mA AC / DC current measurement
- ★ 10A AC / DC current measurement
- ★ HFE(NPN / PNP), Transistor testing (FR133G)
- ★ 10MHz Frequency measuring Capability (FR133G)
- ★ AC / DC600A (Current Clamp) (FR133G)
- ★ Temperature 1000°C / 1832°F (FR133G)
- ★ True RMS, Buzzer / Diode, NCV / LIVE, Red LED Flash



PRODUCT APPLICATION

Used for professional electrician and electronic technology maintenance and repair, school electronic technology training, product color dual color injection molding, sturdy and durable, it is a must-have and preferred multimeter measuring tool for self-taught electronic technology enthusiasts, families and factories.

SPECIFICATIONS

Function / Model	FR133F	FR133G	Accuracy
AC Voltage (V)	400mV / 4V / 40V / 400V / 600V	400mV / 4V / 40V / 400V / 1000V	±(0.5%+3)
DC Voltage (v)	4V / 40V / 400V / 600V	4V / 40V / 400V / 1000V	±(0.8%+3)
ACV / Bandwidth (Hz)	1KHZ	1KHZ	±(0.5%+5)
DC Current (A)	400uA / 40mA / 400mA 10A	400uA / 40mA / 400mA 10A	±(1%+5) ±(2%+5)
AC Current (A)	400uA / 40mA / 400mA 10A	400uA / 40mA / 400mA 10A	±(1%+5) ±(2%+5)
Capacitance(F)	40nF ~ 400n ~ 400uF 4000uF / 40000uF	40nF ~ 400n ~ 400uF 4000uF / 40000uF	±(4%+5) ±(8%+5)
Frequency(Hz)	10Hz ~ 40KHZ	10Hz ~ 100KHZ	±(0.5%+5)
Battery Test	1.5V / 9V	-	±(2.5%+5)
HFE	-	0 ~ 1000	-
NCV/Live Phase Squence	NCV / Live	NCV / Live Phase Squence	-
AC/DC600A(Current Clamp)	-	0.1A ~ 600.0A (1A = 1mV AC / DC)	±(3%+5)
Temperature (°C)	-	(-40°C ~ 1000°C)	±(1.5%+4)
Temperature (°F)	-	(-58°C ~ 1832°F)	±(2%+4)

FEATURES

Display Counts	4000
Auto Range	Auto
True RMS	●
Connuity / Diode	●
NCV (Red LED Flashing)	●
AC Live	●
Auto power off	●
Backlight / Torch	●
Power	AAA1.5V×2
Category Ratings	CAT III 300V CAT II 600V

FR15B+/FR17B+ Auto-Ranging Digital Multimeter

- ★ 6000 counts True RMS
- ★ DC Voltage: 1000V (1500V FR17B+)
- ★ AC Voltage: 1000V
- ★ VFD AC 600V (Variable Frequency)
- ★ 600A AC / DC Current Clamp (1A=1mV)
- ★ 60MΩ resistance measurement
- ★ 60000uF capacitance measurement
- ★ 20MHz Frequency measuring Capability
- ★ 600uA ~ 600mA AC / DC current measurement
- ★ 6.000A~10A AC / DC current measurement
- ★ Temperature 1000°C / 1832°F (FR17B+)
- ★ Continuity / Diode / Duty Cycle
- ★ NCV / LIVE , Red LED Flash
- ★ Continuity Buzzer Green LED Flash



PRODUCT APPLICATION

Suitable for professional electronic technology and new energy industries, maintenance and repair, school electronic technology training, product design of LCD ultra large screen and backlit displays, it is an essential and preferred multimeter measuring tool for self-taught electronic technology enthusiasts and factories.

Electrician power distribution technology installation and maintenance.

SPECIFICATIONS

Function / Model	FR15B+	FR17B+	Accuracy
DC mV	60.00mV / 600mV	60.00mV / 600mV	±(0.5%+3)
DC V	6V / 60V / 600V / 1000V	6V / 60V / 600V / 1500V	±(0.5%+3)
AC mV	60.00mV / 600.0mV	60.00mV / 600.0mV	±(0.8%+5)
ACV / Bandwidth (Hz)	6V / 60V / 600V / 1000V / 1KHz	6V / 60V / 600V / 1000V / 1KHz	±(0.8%+5)
VFD (AC Voltage) Variable Frequency	100 ~ 600V / 400Hz	100 ~ 600V / 400Hz	±(4%+5)
DC Current (A)	600.0uA	600.0uA	±(0.8%+5)
	6mA / 60mA / 600mA	6mA / 60mA / 600mA	±(0.8%+5)
AC / DC 600A (Current Clamp)	6.000A / 10A	6.000A / 10A	±(1.5%+5)
	0.1A ~ 600.0A (Input 1A = 1mV)	0.1A ~ 600.0A (Input 1A = 1mV)	±(3%+5)
Frequency (Hz)	10Hz ~ 20MHz	10Hz ~ 20MHz	±(0.5%+5)
Duty%	10% ~ 90%	10% ~ 90%	±(2%+5)
Resistance (Ω)	600Ω / 6KΩ / 60KΩ / 600KΩ	600Ω / 6KΩ / 60KΩ / 600KΩ	±(0.8%+5)
	6MΩ / 60MΩ	6MΩ / 60MΩ	±(2.5%+5)
Capacitance (F)	60nF ~ 600nF ~ 600uF	60nF ~ 600nF ~ 600uF	±(4%+5)
	6000uF ~ 60000uF	6000uF ~ 60000uF	±(8%+5)
Temperature (°C)	-	(-50°C ~ 1000°C)	±(1.5%+4)
Temperature (°F)	-	(-58°C ~ 1832°F)	±(2%+4)

FEATURES

Display Counts	6000
Auto Range	Auto
True RMS	●
Continuity / Diode	●
Continuity (Green LED)	●
Power	AA1.5V×3
Category Ratings	CAT III 600V CAT II 1000V

FR890 Series Digital Multimeter

- ★ Semi-Automatic
- ★ 6000 counts True RMS
- ★ DC Voltage: 1000V; AC Voltage: 1000V
- ★ 600A AC / DC Current clamp (1A=1mV)
- ★ 60MΩ resistance measurement
- ★ 60000uF capacitance measurement
- ★ 20MHz Frequency measuring Capability
- ★ 600uA~600mA AC / DC current measurement
- ★ 6.000A~10A AC / DC current measurement
- ★ Temperature 1000°C / 1832°F
- ★ Continuity / Diode / Duty Cycle, HFE (NPN / PNP), Transistor testing
- ★ NCV / LIVE , Red LED Flash Continuity Buzzer Green LED Flash



PRODUCT APPLICATION

Suitable for professional electronic technology and new energy industries, maintenance and repair, school electronic technology training, product design of LCD ultra large screen and backlit displays, it is an essential and preferred multimeter measuring tool for self-taught electronic technology enthusiasts and factories.

SPECIFICATIONS

Function / Model	FR890D MAX	FR890C MAX	Accuracy
DC Voltage (V)	60.00mV / 600mV 6V / 60V / 600V (AUTO) 1000V	60.00mV / 600mV 6V / 60V / 600V (AUTO) 1000V	±(0.5%+3) ±(0.5%+3) ±(0.8%+5)
AC Voltage (v)	6V / 60V / 600V / Hz (AUTO) 1000V	6V / 60V / 600V / Hz (AUTO) 1000V	±(0.8%+5) ±(1%+5)
ACV / Bandwidth (Hz)	1KHz	1KHz	-
DC Current (A)	600uA 6mA / 60mA / 600mA (AUTO) 6.000A / 20A	600uA 6mA / 60mA / 600mA (AUTO) 6.000A / 20A	±(0.8%+5) ±(0.8%+5) ±(2%+5)
AC Current (A)	600uA 6mA / 60mA / 600mA (AUTO) 6.000A / 20A	600uA 6mA / 60mA / 600mA (AUTO) 6.000A / 20A	±(1%+5) ±(1%+5) ±(2%+5)
AC/DC 600A (Current Clamp)	0.1A ~ 600.0A (Input 1A=1mV)	0.1A ~ 600.0A (Input 1A=1mV)	±(3%+5)
Frequency (Hz) Duty	-	10Hz ~ 20MHz 10% ~ 90%	±(0.8%+5) ±(1%+5)
Resistance (Ω)	600Ω 6KΩ / 60KΩ / 600KΩ (AUTO) 6MΩ / 60MΩ	600Ω 6KΩ / 60KΩ / 600KΩ (AUTO) 6MΩ / 60MΩ	±(2%+5) ±(1%+4) ±(2.5%+4)
Capacitance (F)	60nF / 600nF / 6uF / 60uF / 600uF / 6mF / 100mF	60nF / 600nF / 6uF / 60uF / 600uF / 6mF / 100mF	±(4%+4) ±(8%+4)
HFE(NPN / PNP)	0~1000	0~1000	-
Battery Test	1.5V / 9V	-	±(2.5%+4)
Temperature (°C)	-	(-50°C~1000°C)	±(1.5%+4)
Temperature (°F)	-	(-58°C~1832°F)	±(2%+4)

FEATURES

Display Counts	6000
Auto Range	Semi-Automatic
True RMS	●
Connuity / Diode	●
Connuity (Green LED)	●
Power	AA1.5V×2
Category Ratings	CAT III 600V CAT II 1000V

FR17 Series Digital Multimeter

- ★ AC voltage/current frequency response:40Hz~500Hz
- ★ Power supply:Two 1.5V batteries (2xAA)
- ★ True valid value
- ★ Over range alarm
- ★ Automatic shut-down, Low voltage indication
- ★ Full range protection



PRODUCT INTRODUCTION

The FR17 series digital universal meter is a multifunctional, multi -range, multi -purpose electronic measurement instrument, which is widely used in physical, electrical, electronics and other fields. This instrument uses a new large digital LCD screen design, with interchangeable voltage, current, resistance, capacitance, temperature, frequency, diode, NCV voltage induction, zero fire detection and other measurement functions. The whole machine is beautiful and high -end, the range is wide, the resolution is high, the operation is convenient, the carry is convenient, the accurate, reliable, and stable performance, and strong anti -interference ability. In addition, it has a shock -proof, dust -proof, and moisture -proof structure. It is a commonly used and indispensable instrument for telecommunications, power, machine rooms, mechanical installation and maintenance as industrial enterprises that use power as industrial power or energy.

TECHNICAL PARAMETERS

Model	FR17B	FR17C
Maximum count	4000 count	6000 count
Range switching	Automatic	Automatic
DC voltage	0.00mV ~ 750V± (0.5 % + 3)	0.00mV ~ 1000V± (0.5 % + 3)
AC voltage	0.00mV ~ 600V± (0.8 % + 5)	0.00mV ~ 750V± (0.8 % + 5)
DC current	0.0uA ~ 10.00A ± (1.2% + 3)	0.0uA ~ 20.00A ± (1.2% + 3)
AC current	0.0uA ~ 10.00A ± (1.5% + 3)	0.0uA ~ 20.00A ± (1.5% + 3)
Capacitance	0.000nF ~ 40.00mF ± (3.0% + 5)	0.000nF ~ 100.0mF ± (3.0% + 5)
Resistance	0.0Ω ~ 40.00MΩ ± (1.0 % + 3)	0.0Ω ~ 60.0MΩ ± (1.0 % + 3)
Frequency	0.00 Hz ~ 10.00M Hz ± (1.0% + 3)	
Duty cycle	0.0 % ~ 99.9 % ± (1.0 % + 3)	
Temperature	-20 ~ 1000 degrees Celsius; - 4 ~ 1832 degrees Fahrenheit; ±1.0% of reading or ± 3°C	
AC Voltage/Current Frequency Response	40Hz~500Hz	
True valid value	Have	
Max/Min	Have	
Data retention	Have	
Diode	Have	
Continuity test	Have	
NCV voltage detection	Have	
Zero fire line judgment	Have	
Flashlight	Have	
Test lead port indication	Have	
LCD screen display	Have	
Backlight	Have	
Low voltage indication	Have	
1 meter drop test	Have	
Safety level	CAT III 1000V/ CAT IV 600V	
IP	IP45	

FR705 Series Solar MPPT Power Tester

- ★ Small external dimensions; easy to carry
- ★ Designed with large LCD to display all parameters compact and portable whole machine
- ★ Manual / Auto mode
- ★ Protection against overtemperature, overvoltage, and overcurrent
- ★ Protection against reverse connection
- ★ Overload protection



PRODUCT APPLICATION

FR705 Series Solar MPPT Meter can measure the maximum power of solar module rapidly. It has the ability to measure maximum power (Pmax) of solar module, open-circuit voltage (Voc), and short-circuit current (Isc) at the same time and display all parameters on the screen. MPPT is the most important indicator for judging if a solar panel generates power in low efficiency, and is commonly used for measuring solar panel or troubleshooting faulty module.

Application fields: Manufacturers of solar panel, users of solar panel, etc.

SPECIFICATIONS

Model	FR705	FR705E
PMAX (W)	1000W	2000W
Vmp (V)	12 ~ 80V	12 ~ 150V
Amp (A)	35A	45A
Voc (V)	12 ~ 80V	12 ~ 150V
Isc (A)	35A	45A

FEATURES

Large screen display	3.2 Inch
Manual / Auto Range	Manual / Auto
Beep notification	●
Backlight	●
Auto Power Off	●
Low Battery Indication	●
Data Hold	●
Reverse input protection	●

FR200 Series Clamp Digital Multimeter FR201E/FR202E

- ★ AC Current: 600A
- ★ Temperature measure: 1000°C / 1832°F
- ★ AC / DC Voltage: 600V
- ★ 20MΩ / 40MΩ Resistance Measuring Capability
- ★ 4000uF Capacitance Measuring Capability
- ★ 40KHz Frequency Measuring Capability
- ★ Continuity / Diode / Duty Cycle
- ★ Max / Min, Backlight & Data Hold
- ★ NCV / LIVE ,Red LED Flash & Continuity Buzzer
- ★ Torch Build In Functions As Measuring Assistance
- ★ Clamp Jaw opening 30mm



PRODUCT APPLICATION

Electrician power distribution technology installation and maintenance. Industrial construction, factory production and distribution system installation, maintenance and repair.

SPECIFICATIONS

Function / Model	FR201E	FR202E	Accuracy
AC Current (A)	2.000A	4.000A	±(3.5%+30)
	20A / 200A / 600A	40A / 400A / 600A	±(2%+5)
DC Voltage (V)	200mV / 2V / 20V / 600V	400mV / 4V / 40V / 600V	±(0.5%+3)V
AC Voltage (V)	2V / 20V / 600V	4V / 40V / 600V	±(0.8%+3)
ACV / Bandwidth (Hz)	400Hz	400Hz	-
Frequency (ACV Hz)	-	10Hz ~ 40kHz	±(0.5%+5)
Resistance (Ω)	200Ω / 2KΩ / 20KΩ / 200KΩ	400Ω / 4KΩ / 40KΩ / 400KΩ	±(1%+5)
	2MΩ / 20MΩ	4MΩ / 40MΩ	±(2%+5)
Capacitance (F)	-	40nF ~ 400nF ~ 400uF	±(4%+5)
	-	4000uF	±(8%+5)
Temperature (°C)	-	(-20°C ~ 1000°C)	±(1.5%+4°C)
Temperature (°F)	-	(-4°F ~ 1832°F)	±(2%+5°C)

FEATURES

Function	FR201E	FR202E
Display Counts	2000	4000
Jaw Opening	Φ30mm	
Auto Range	●	
True RMS	●	
Connuity / Diode	●	
NCV (Red LED Flashing)	●	
AC Live	●	
Auto power off	●	
Max / Min	●	
Zero / Rel	●	
Backlight / Torch	●	
Battery	AAA1.5V×2	
Category Ratings	CAT III 300V CAT II 600V	

FR200 Series Clamp Digital Multimeter FR203E/FR204E

- ★ DC / AC Current: 400A (FR203E)
- ★ DC / AC Current: 600A (FR204E)
- ★ LowZ 100V ~ 600V
- ★ AC / DC Voltage: 600V
- ★ 40MΩ / 60MΩ Resistance Measuring Capability
- ★ 4mF / 60mF Capacitance Measuring Capability
- ★ 40KHz / 60KHz Frequency Measuring Capability
- ★ Temperature measure: 1000°C / 1832°F
- ★ NCV / LIVE, Red LED Flash & Continuity Buzzer
- ★ Torch Build In Functions As Measuring Assistance
- ★ Clamp Jaw opening 28mm



PRODUCT APPLICATION

Electrician power distribution technology installation and maintenance. Industrial construction, factory production and distribution system installation, maintenance and repair.

SPECIFICATIONS

Function / Model	FR203E	FR204E	Accuracy
DC Current (A)	40A / 400A	60A / 600A	±(2%+5)
AC Current (A)	40A / 400A	60A / 600A	±(2%+5)
DC Voltage (V)	600V	600V	±(0.5%+3)
AC Voltage (V)	600V	600V	±(0.8%+3)
LowZ AC Voltage (V)	-	600V	±(1.5%+5)
ACV / Bandwidth (Hz)	400Hz	1kHz	-
ACA / Bandwidth (Hz)	60Hz	60Hz	-
Frequency (ACV Hz)	40kHz	60kHz	±(0.5%+5)
Resistance(Ω)	400Ω~400KΩ	600Ω~600KΩ	±(1%+5)
	4MΩ~40MΩ	6MΩ~60MΩ	±(2%+5)
Capacitance (F)	40nF / 400uF	60nF / 600uF	±(4%+5)
	40000uF	60mF	±(8%+5)
Temperature (°C)	-	(-50°C~1000°C)	±(1.5%+4°C)
Temperature(°F)	-	(-58°F~ 1832°F)	±(2%+5°C)

FEATURES

Display Counts	4000	6000
ACV LowZ	-	●
Jaw Opening	Φ28mm	
Auto Range	●	
True RMS	●	
Connuity / Diode	●	
Auto power off	●	
Backlight / Torch	●	
Battery	AAA1.5V×2	
Category Ratings	CAT III 300V CAT II 600V	

FR206E DC Power Clamp Multimeter

- ★ DC Voltage: 1020KVA
- ★ DC / AC Current: 600A
- ★ High Voltage: AC1000V / DC1700V
- ★ VFD Frequency changing Circuit Measuree
- ★ 60MΩ Resistance Measuring Capability
- ★ 60mF Capacitance Measuring Capability
- ★ 60KHz Frequency Measuring Capability
- ★ Continuity / Diode / Duty Cycle
- ★ Max/Min, Backlight & Data Hold Zero
- ★ NCV / LIVE , Red LED Flash & Continuity Buzzer
- ★ Torch Build In Functions As Measuring Assistance
- ★ Clamp Jaw opening 28mm



PRODUCT APPLICATION

New energy solar power generation circuit system. Circuit detection and maintenance of new energy vehicles. Installation and maintenance of newenergy charging pile. EV charging landscape. Installation and maintenance of electrician room and air conditioning system

SPECIFICATIONS

Function / Model	Range	Accuracy	Tolerance
DC Power (KVA)	1020KVA	0.01VA	±(3%+30)
DC Current (A)	60A / 600A	0.01A	±(2%+5)
AC Current (A)	60A / 600A	0.01A	±(2%+5)
DC High Voltage (V)	1700V	0.01V / 1V	±(2%+10)
AC High Voltage (V)	1000V	0.01V / 1V	±(2%+10)
DC Voltage (V)	600V	0.01V	±(0.5%+3)
AC Voltage (V)	600V	0.01V	±(0.8%+3)
ACV / Bandwidth (Hz)	1kHz	-	-
ACA / Bandwidth (Hz)	60Hz	-	-
Frequency (ACV Hz)	60KHz	0.001Hz / 0.001KHz	±(0.5%+5)
Resistance (Ω)	600Ω ~ 600KΩ	0.1Ω / 0.001kΩ /	±(1%+5)
	6MΩ ~ 60MΩ	0.001MΩ	±(2%+5)
Capacitance (F))	6nF~600uF	0.001nF / 0.001uF	±(4%+5)
	6mF / 60mF	0.01mF	±(8%+5)
Temperature (°C)	1000°C	1°C	±(1.5%+4)
Temperature (°F)	1832°F	1°F	±(2%+5)

FEATURES

Display Counts	6000
Auto Range	●
True RMS	●
ACV VFD	●
Connuity / Diode	●
Auto power off	●
Backlight / Torch	●
Battery	AAA1.5V×2
Category Ratings	CAT III 300V CAT II 600V

FR207 Series Clamp Digital Multimeter

- ★ DC / AC Current: 1000A
- ★ AC Voltage: 1000V
- ★ DC Voltage: 1700V (FR207C 1000V)
- ★ LowZ 100V ~ 1000V
- ★ 60MΩ Resistance Measuring Capability
- ★ 60mF Capacitance Measuring Capability
- ★ 10MHZ / 20MHz Frequency Measuring Capability
- ★ Temperature measure: 1000°C / 1832°F
- ★ NCV / LIVE, Red LED Flash & Continuity Buzzer
- ★ Clamp Jaw opening 42mm



PRODUCT APPLICATION

Electrician power distribution technology installation and maintenance. Industrial construction, factory production and distribution system installation, maintenance and repair.

SPECIFICATIONS

Function / Model	FR207C	FR207D	Accuracy
AC Current (A)	60 / 600 / 1000A	60 / 600 / 1000A	±(2%+5)
INRUSH Current (A)	60 / 600 / 1000A	60 / 600 / 1000A	±(2%+5)
DC Current (A)	60 / 600 / 1000A	60 / 600 / 1000A	±(2%+5)
DC High Voltage (V)	1000V	1700V	±(0.5%+5)
AC High Voltage (V)	1000V	1000V	±(0.5%+5)
LoWZ AC / DC Voltage (V)	100 ~ 1000V	100 ~ 1000V	±(1.5%+5)
ACV / Bandwidth (Hz)	1kHz	1kHz	-
ACA / Bandwidth (Hz)	60HZ	60HZ	-
Frequency (Hz)	10MHZ	20MHZ	±(0.5%+5)
Resistance (Ω)	600Ω / 6KΩ / 60KΩ / 600KΩ	600Ω / 6KΩ / 60KΩ / 600KΩ	±(1%+5)
	6MΩ / 60MΩ	6MΩ / 60MΩ	±(2%+5)
Capacitance (F)	60nF ~ 600nF ~ 600uF	60nF ~ 600nF ~ 600uF	±(4%+5)
	6000uF / 60000uF	6000uF / 60000uF	±(8%+5)
Temperature (C)	-	1000°C	±(1.5%+4°C)
Temperature (°F)	-	1832°F	±(2%+5°F)

FEATURES

Display Counts	6000
Auto Range	●
True RMS	●
ACA PEAK	●
ACV VFD	●
Connuity / Diode	●
NCV (Red LED Flashing)	●
AC Live	●
Max / Min	●
Zero / Rel	●

FR210 Series Miniature Clamp Digital Multimeter

- ★ 400 / 6000 counts True RMS
- ★ AC / DC Current: 2.000A~200A
- ★ AC / DC Voltage: 600V
- ★ VFD AC 600V (Variable Frequency) voltage measurement
- ★ 40MΩ / 60MΩ Resistance Measuring Capability
- ★ 4000uF / 60000uF Capacitance Measuring Capability
- ★ 40KHz / 60KHz Frequency Measuring Capability
- ★ Temperature 1000°C / 1832°F
- ★ Continuity / Diode / Duty Cycle
- ★ NCV / LIVE ,Red LED Flash & Continuity Buzzer
- ★ Torch Build In Functions As Measuring Assistance
- ★ Clamp Jaw opening 20mm



PRODUCT APPLICATION

Suitable for new energy and energy-saving household appliances, such as variable frequency air conditioners, frequent frequency washing machines, variable frequency motors, etc., capable of accurately measuring small currents, And it is a necessary and preferred clamp gauge measuring tool for electricians and electrical maintenance technicians.

SPECIFICATIONS

Function / Model	FR210C	FR210E	FR210D	Accuracy
DC Current(A)	20.00A / 200A	2.000A / 20A / 200A	2.000A / 20A / 200A	±(3.0%+30) ±(2%+5)
AC Current (A)	20.00A / 200A	2.000A / 20A / 200A	20.00A / 200A	±(2%+5)
DC Voltage (V)	400mV / 4V / 40V / 600V	600mV / 6V / 60V / 600V	600mV / 6V / 60V / 600V	±(0.5%+3)
AC Voltage (V)	4V / 40V / 600V	6V / 60V / 600V	6V / 60V / 600V	±(0.8%+3)
VFD (AC Voltage) Variable Frequency	-	100 ~ 600V / 400HZ	100~600V / 400Hz	±(4%+5)
ACV / Bandwidth (Hz)	400Hz	1kHz	1kHz	1kHz
Frequency (ACV Hz)	10Hz~ 40kHz	10Hz ~ 60kHz	10Hz ~ 60kHz	±(0.5%+5)
Resistance (Ω)	400Ω ~ 400KΩ 4MΩ ~ 40MΩ	600Ω / 6KΩ / 60KΩ / 600KΩ 6MΩ / 60MΩ	6000Ω ~ 600K 6MΩ ~ 60MΩ	±(1%+5) ±(2%+5)
Capacitance (F)	40nF~400nF~400uF 4000uF	60nF ~ 600nF ~ 600uF 6000uF ~ 60000uF	60nF~600nF~600uF 6000uF~60000uF	±(4%+5) ±(8%+5)
Temperature (°C)	-	-	(-50°C~1000°C)	±(1.5%+4°C)
Temperature (°F)	-	-	(-58°F~1832°F)	±(2%+5°C)

FEATURES

Display Counts	4000	6000	6000
VFD (Variable Frequency)	-	●	●
Auto Range		●	
True RMS		●	
Connuity / Diode		●	
AC Live		●	
Auto power off		●	
Backlight / Torch		●	
Power	AAA1.5V×2		
Category Ratings	CAT III 300V CAT II 600V		

FR205 Series Digital Clamp Multimeter

- ★ Range switching:Auto
- ★ AC Voltage/Current Frequency Response:40Hz ~ 500Hz
- ★ NCV Voltage Detection
- ★ Over range Alarm
- ★ Automatic Shutdown
- ★ Low voltage indication
- ★ Full Range Protection
- ★ LCD Display



PRODUCT INTRODUCTION

FR205 series digital clamp multimeter is a multi-functional, multi-range, multi-purpose electronic measuring instrument, which is widely used in electronic and electrical fields. This instrument uses a new digital LCD display design, equipped with high-tech induction clamps, easy to operate, high efficiency, farewell to the traditional way of measuring current. At the same time, it has measurement functions such as AC and DC voltage, resistance, capacitance, temperature, frequency, diode, NCV voltage sensing, and zero fire detection. The whole machine is beautiful and high-grade, with wide measuring range, high resolution, convenient operation, easy to carry, accurate, reliable, stable performance and strong anti-interference ability. Moreover, it has a shockproof, dustproof, and moisture-proof structure, and is the preferred electrical measurement tool for electronic electricians.

TECHNICAL PARAMETERS

Model	FR205B	FR205D
Maximum count	4000 Count	6000 Count
Range switching	Auto	
DC voltage	0.1V~400.0V±(0.8%+5)	0.1V ~600.0V±(0.8%+5)
AC voltage	0.1V~400.0V±(0.8%+5)	0.001V~600.0V±(0.8%+5)
DC Current	NO	0.10A~600.0A±(2.0%+5)
AC Current	0.10A~400.0A±(2.0%+5)	0.10A~600.0A±(2.0%+5)
Capacitance	0.001nF~40.00mF±(3.0%+5)	0.001nF~100.00mF±(3.0%+5)
Resistance	0.1Ω~40.00MΩ±(1.0%+3)	0.1Ω~60.00MΩ±(1.0%+3)
Frequency	1.00Hz~10.00MHz±(1.0%+3)	
Duty cycle	0.1%~99.9%±(1.0%+3)	
Temperature	-20~1000 Degree Celsius;-4 ~ 1832 Fahrenheit Degree;±1.0% reading or±3°C	
AC Voltage/Current Frequency Response	40Hz ~ 500Hz	
Jaw size	28mmX42mm	
True RMS	Have	
Max/Min	Have	
Data retention	Have	
Diode	Have	
On-off test	Have	
Zero/Fire-line judgment	Have	
1 Meter Drop Test	Have	
Backlight	Have	
LCD Size	38.8mm×30mm	
Electric Supply	Two 1.5V batteries (2xAAA)	
Safety Grade	CAT III 600V/ CAT IV 600V	
Product Weight	Approx. 332g(without battery)	
Meter Size	218mm×76mm×38mm	
IP	IP45	

FR030A AC clamp-on current sensor

- ★ AC 600A
- ★ Output: 1A / 1mV AC
- ★ Output line (Bourdon tube extension wire) 2m
- ★ CAT II 600V / CAT III 300V



PRODUCT APPLICATION

Suitable for professional electricians, electrical maintenance and repair, special testing applications, and is an essential external current clamp measuring tool for factory and distribution control system maintenance.

SPECIFICATIONS

Function	Range	Accuracy
Max AC Current	AC 600A	±(2%+0.5A)
OUT AC mV	1mV / A	
AC600A	AC 0.600V	
AC100A	AC 100mV	
AC10A	AC 10mV	
AC1A	AC 1mV	
ACA / Bandwidth (Hz)	50 / 60Hz	
FEATURES		
Jaw Opening	Φ30mm	
Output line length	2m (Bourdon tube extension wire)	
Battery	No battery	
Category Ratings	CAT III 300V	
	CAT II 600V	

FR040AD Current Clamp

- ★ **Current : 700A**
- ★ **Power: battery/Type-c**
- ★ **Accuracy: 1%**
- ★ **Clamp jaw opening 28mm**



PRODUCT APPLICATION

The FR040AD current clamp can measure circuit AC/DC currents and detect or monitor possible leakage currents without disconnecting or affecting the isolated circuit. Measuring current range wide, with a multimeter or oscilloscope can measure up to 600A current, frequency up to 400Hz. Simple operation, easy to carry.

SPECIFICATIONS

Function	AC-DC current measurement
Power	Internal power supply: 9VDC 6F22 dry battery; external power supply: Type-C USB interface
Measurement method	Hall induction measurement
Measuring bandwidth	400Hz
Working temperature and humidity	0C~50 C; below 70%Rh
Storage temperature and humidity	-10 C ~ 70 C; <95%RH, No condensation
Measure conductor voltage	<300VDC; ≤240VAC
Output mode	1mV / 1A; 10mV / 1A
Output voltage	2Vpp max
Jaw Opening	Φ28mm
Measurement accuracy	
Direct current	±(1%reading+0.5)
Alternating-current (0 to 60Hz)ent	±(1%reading+0.5)
Alternating-current (60 to 400Hz)	±(1%reading+1.0)

FR2000+ Series Clamp Ground Resistance Tester

- ★ Resistance Range: 0-1200Ω
- ★ Current Range: 0-20A
- ★ New black screen design, luxury
- ★ Ω + A same screen display
- ★ Quick self-test function without waiting
- ★ Using fast filtering technology, strong anti-interference ability
- ★ New design, long life clamp head
- ★ 300 sets of storage



PRODUCT INTRODUCTION

FR2000+ clamp ground resistance tester is a new generation of groundless pile measurement method. It uses a brand new generation of LCD, black screen backlight display and microprocessor technology to measure the grounding resistance through inductive method. When measuring a grounded system with a loop, it is not necessary to disconnect the ground lead wire, and no need for auxiliary electrodes.

It uses a fast filtering technique to minimize interference. At the same time store 300 groups of data.

MODEL CONTRAST

Model	FR2000A+	FR2000+	FR2000B+	FR2000C+
Resistance range	0.01Ω-200Ω	0.01Ω- 500Ω	0.01Ω-1200Ω	0.01Ω-1200Ω
Class type	Utility-type	Basic type	Explosion proof type	Multifunction type
Resistance resolution	0.001Ω	0.001Ω	0.001Ω	0.001Ω
Current range	NO	NO	NO	0.00mA-20A
Current resolution	NO	NO	NO	0.01mA

TECHNICAL PARAMETERS

Function	Ground resistant test, Loop resistance test, *leakage current test
Power Supply	4 section AA alkaline dry battery
Measurement Method	Mutual induction
Clamp Diameter	55mm×32mm
*Ω+A Synchronized display	Ω+A same screen display
Display Mode	4-digit LCD display, black screen design
LCD Dimension	46mm×29mm
Meter Dimension	W/T/H: 85mm×58mm×285mm
Sampling Speed	About 2 times/second
Data Review	"MR" symbol indication when reviewing data
Overflow Display	Exceed measurement range overflow function: "OL" symbol display
Interference Test	Automatic identify interference signal,"NOISE"symbol indication when the interference current is large
Alarm Function	Alarm when the measured value exceeds the alarm setting value
Battery Voltage	Real-time display of battery power, reminding timely change when battery voltage is low
Automatic shut-down	"APO" instruction, automatic shutdown after 5 minutes boot
Power Consumption	50mA Max
Weight	Instrument: 1180g (with battery)
Production Compliance	IEC61010-1 (CAT III 300V、CAT IV 150V、Pollution Grade 2); IEC61010-031; IEC61557-1
IP	IP45

*The instrument with current function has this function.

FR1050 Series Flexible Clamp Current Tester

- ★ **Function: Current Test, Leakage Current Test**
- ★ **Coil Inner Dia.: Φ 150mm/ Φ 300mm**
- ★ **Current Range: 0mA-10000A**
- ★ **AC Voltage: 0V~750V AC**
- ★ **DC Voltage: 0.0V~1000V DC**
- ★ **Data Storage: 500 groups**
- ★ **With Backlight Function**



PRODUCT INTRODUCTION

FR1050 series flexible current clamp meter is well-designed and manufactured for field test of AC large current and leakage current, with high accuracy, good linearity, and anti-interference ability, it can replace the traditional ordinary clamp meter to measure large current and leakage current. , widely used in electricity, communications, meteorology, railways, oil fields, construction, research and teaching units, and other fields. It is especially suitable for places where cables are dense, transformers are connected to the wall for current measurement of subway cores, and tests for thick wire cables are conducted, suitable for current testing of industrial environments such as relay protection, thyristor rectification, variable frequency speed control, semiconductor switching, arc welding, etc. with severely distorted signals.

It adopts advanced Rogowski coil technology and is a toroidal coil uniformly wound on a non-ferromagnetic material, without hysteresis effect and without magnetic saturation phenomenon. High linearity, strong anti-interference ability.

MODEL CONTRAST

Model	FR1050A	FR1050	FR1050E
Coil length	470mm	470mm	950mm
Coil inner diameter	ϕ 150mm	ϕ 150mm	ϕ 300mm
Current range	0A-10000A	0mA-10000A	0mA-10000A
Current resolution	0.1A	1mA	1mA

TECHNICAL PARAMETERS

Function	Current test, leakage current test, DC voltage test, AC voltage test		
Current accuracy	Accuracy $\pm 2\% \pm 5 \text{dgt}$ (The wire is at the center of the flexible coil , $23^{\circ}\text{C} \pm 2^{\circ}\text{C}$)		
AC Voltage Range	0.0V ~ 750V AC	resolution : 0.1V	accuracy : $\pm 1.5\% \text{rdg} \pm 3 \text{dgt}$
DC Voltage Range	0.0V ~ 1000V DC	resolution : 0.1V	accuracy : $\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$
Sampling rate	2times/sec		
Power	DC4.5V 7# alkaline battery (1.5V AAA \times 3)		
Backlight	Have		
Test method	Flexibility CT		
Instrument size	Host size : W/T/H: 151*100*35mm (not including coil)		
LCD size	45mm*28mm		
Coil thickness	Φ 8mm(Suitable for narrow environments and cable-intensive places)		
Instrument total weight	220g (ϕ 150mm caliber, including battery)		
Overflow display	Over-range overflow function : "OL"symbol display		
Data storage	500 groups , "FULL"symbol display means the storage is full		
Battery voltage	The battery voltage is 4 grids. When the battery symbol is empty, the battery is less than 3.15V.		
Insulation resistance	Larger than 100M (1kV)		
Working temperature and humidity	$-10^{\circ}\text{C} \sim 40^{\circ}\text{C}$ below 70%rh		
Storage temperature and humidity	$-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$ below 80%rh		
Production Compliance	IEC1010-1、IEC1010-2-032、 pollution grade 2、 CAT III (600V) IEC61326(EMC standard)		
IP	IP45		

FR2050 Series Flexible Clamp Power Meter

- ★ **Function:** Three-phase AC voltage, leakage current, current, active power, reactive power, apparent power, total power, electric energy, phase sequence, etc.
- ★ **Inner diameter of coil:** $\phi 150\text{mm}/\phi 300\text{mm}$
- ★ **AC voltage:** 0.00V~600V
- ★ **AC current:** 0.0A~3000A
- ★ **Phase angle:** 0.0~360.0°
- ★ **Power factor:** 0.000~1.000
- ★ **Active power:** 0.00W~1800kW
- ★ **Electric energy range:** 0.0000~180000kWh



PRODUCT INTRODUCTION

FR2050 is a multi-function digital smart meters that specially developed for measuring three-phase AC voltage, current, leakage current, phase between voltage, phase, phase sequence, electric energy, total power, etc. It can replace the traditional bulky clamp-type leakage current meter and micropower clamp meter function, can also be used to identify transformer wiring groups, inductive, capacitive circuits, read the phase relationship between the CTs of the differential protection groups, check the correctness of the wiring of the watt-hour meter, and repair the line equipment, etc.

MODEL CONTRAST

Model	FR2050	FR2050E
Coil length	470mm	950mm
Coil inner diameter	$\phi 150\text{mm}$	$\phi 300\text{mm}$

TECHNICAL PARAMETERS

Function	Three-phase AC voltage, leakage current, current, active power, reactive power, apparent power, total power, phase of current and voltage, phase between voltage, frequency, energy, phase sequence, etc.	
Current range	AC 0.0A ~ 3000A	Resolution : 0.1A
Voltage range	AC 0.00V ~ 600V	Resolution : 0.01V
Phase range	0.0° ~ 360.0°	Resolution : 0.1°
Power factor	0.3 ~ 1.0	Resolution : 0.001
Power range	AC 0.5W ~ 1800KW	Resolution : 0.01W
Electric energy range	0.0000KWh ~ 180000KWh	Resolution : 0.0001KWh
Power	DC4.5V 7# Alkaline battery (1.5V AAA×3)	
Measure mode	Flexible CT, three-phase voltage clip	
Jaw size	$\phi 150\text{mm}/\phi 300\text{mm}$	
Wire position	The measured wire is at the center of the flexible coil	
Data storage	200groups , display "FULL" symbol indicates that storage is full	
Frequency	50Hz/60Hz automatic identification	
Shift	Automatic switching	
Sample rate	About 2 times/second	
Line voltage	AC 600V line measurement	
Display mode	LCD : 128dots×64dots ; Display area : 43mm×29mm	
Instrument size	Host size:W/T/H 151*100*35mm (without coil)	
Backlight	Have	
Data storage	Data storage function : "HOLD"symbol display	
Automatic shut-down	About 15 minutes after power on, the meter will automatically shut down	
Instrument weight	Instrument : 1kg(with battery and accessories)	
Production Compliance	IEC1010-1、IEC1010-2-032 Pollution Grade 2, CAT III 600V	
IP	IP45	

FR2060 Non-contact Phase Sequence Tester

- ★ **Function:** Phase detection (normal phase, reverse phase), live line inspection, simple electricity inspection, phase loss judgment, circuit breaker search, breakpoint location, and line maintenance
- ★ **Test Method:** non-contact clipping method



PRODUCT INTRODUCTION

FR2060 is a major breakthrough in traditional phase sequence detection methods. The traditional phase sequence detection must be to open the three-phase wire terminal, the phase sequence table of the 3 exposed clips or test pins are connected to the exposed three fire lines. FR2060 uses clamp-type non-contact inductive measurement. It does not need to open the wire and touch the high voltage exposed live wire. It can directly detect the phase sequence by sandwiching the three super induction high-insulation clamps to clamp the three-phase live wire insulation sheath. At the same time, the acousto-optic indicates the normal or reverse phase state of the phase sequence of the 3-phase power supply.

TECHNICAL PARAMETERS

Function	Phase detection (normal phase, reverse phase), live line inspection, simple electricity inspection, phase loss judgment, circuit breaker search, breakpoint location, and line maintenance.
Power	9V battery, continuous use time is about 70 hours.
Measure mode	Non-contact clipping method
Wire position	The measured wire is in the center of the jaw
Frequency	50Hz/60Hz Automatic Identification
Live electricity range	AC70 ~ 1000V
Measuring the highest voltage	AC1000V
Clamp wire size	Outside diameter Φ 1.5mm ~ Φ 48mm
Display	【Positive phase】 4 phase detector lights are turned on in a clockwise direction ;
	【Reverse phase】 4 phase detection lights are turned on counterclockwise;
	【Live electricity】 L1, L2, L3 lights in the voltage setting range ;
	【Lack of phase】 L1 or L2 or L3 lights are not lit ;
	【Open circuit】 L1 or L2 or L3 lights are not lit
Beep	【Positive phase】 The instrument emits intermittent short beep ;
	【Reverse phase】 The instrument emits a continuous long beep.
Battery check	After the power is turned on, the power indicator is on; the battery is low; the LOW BATTERY lamp is on.
Clamp lead length	0.6m
Instrument size	L 117.6mm×W 81mm×T 25mm
Automatic shut-down	After about 6 minutes of power on, the meter automatically shuts down to reduce battery consumption.
Battery voltage	When the battery voltage drops to about 5.2V, the battery voltage is low symbol to remind to replace the battery
Instrument weight	Instrument : 260g(including battery)
Maximum rated power	300mVA
Production Compliance	EN61010-1: 2001、EN61010-031: 2002、 Pollution Grade 2、 CAT III (600V)CAT III 600V
IP	IP45

FR3010 Digital Earth Resistance Tester

- ★ **Function:** ground resistance test, ground voltage test, low value resistance test
- ★ **Resistance Range:** 0.01Ω~3000Ω
- ★ **Voltage Range:** 0.01V~600V AC
- ★ **Measurement method:** precision three-wire measurement, simple two-wire measurement
- ★ **Line Voltage:** test below AC 600V
- ★ **Data Storage:** 500 groups



PRODUCT INTRODUCTION

FR3010 digital grounding resistance tester, also name the three-wire grounding resistance tester, grounding resistance meter, etc., it is a commonly used meter for measuring grounding resistance. It uses a large LCD gray screen backlight display and microprocessor technology to meet the requirements of two-wire and three-wire test resistance. It is a new generation of grounding measurement instrument that replaces traditional rocking table measurements. Suitable for telecommunications, electricity, meteorology, computer rooms, oil fields, power distribution lines, iron tower transmission lines, gas stations, factory grounding networks, lightning rods and so on. Instrument testing is precise, fast, simple, stable and reliable.

TECHNICAL PARAMETERS

Ground resistance range	0.01Ω ~ 3000Ω	Resolution : 0.01Ω	Accuracy : ±1.5%rdg±3dgt
Ground voltage range	0 ~ 600V AC	Resolution : 0.01V	Accuracy : ±1.5%rdg±3dgt
Function	Ground resistance test, ground voltage test, low value resistance test		
Power Supply	1.5V (LR14) Alkaline Battery 6 Section		
Backlight	Controllable gray screen backlight, suitable for use in dim places		
Measurement Mode	Precise three-wire measurement, simple two-wire measurement		
Measurement Method	Grounding resistance: rated current change pole method, 128Hz; Ground voltage: average value rectification ;		
Wire Resistance Check	Avoiding the errors caused by the test line not being fully inserted into the instrument interface or being in poor contact or replaced the extended test line by the user, to make the ground resistance measurement more accurate		
Display mode	4-bit large LCD display, gray screen backlight		
Measure indication	LED flashing indicator during measurement, LCD countdown display		
LCD Dimension	108mm×65mm		
Meter Dimension	L/W/H: 240mm×188mm×85mm		
Test Line Length	3 strips: Red 15m, Yellow 10m, Green 5m each 1 strip		
Simple Test Line	2 strips: yellow 1.5m, green 1.5m each 1 strip		
Auxiliary Grounding Rod	2 roots		
Measure Time	Ground voltage: about 3times/second; Grounding resistance: about 5 times/second		
Line Voltage	Measure ground voltage: below AC 600V		
Data Storage	500 groups, flashing "FULL" symbol indicates that the storage is full		
Data Review	"MR" symbol indication when reviewing data		
Overflow Display	Exceed measurement range overflow function: "OL" symbol display		
Alarm Function	Alarm when the measured value exceeds the alarm setting value		
Battery Voltage	Insufficient battery voltage, showing low battery symbol "  "		
Automatic Shutdown	The instrument automatically shuts down after about 15 minutes without operation.		
Power consumption	Standby: 40mA Max(Backlight off), Turn on backlight: 43mA Max, measuring :120mA Max(Backlight off)		
Weight	Instrument: 1230g (including battery) ,test line: 610g (including simple test line)		
Production Compliance	IEC61010-1、 IEC1010-2-31、 IEC61557-1,5、 IEC60529(IP54)、 Pollution Grade 2、 CAT III 300V		
IP	IP54		

FR3010E Ground Resistance Soil Resistivity Tester

- ★ **Function:** two three four line test ground resistance, soil resistivity, ground voltage
- ★ **Resistance Range:** 0.00Ω ~ 30.00kΩ
- ★ **Soil Resistivity:** 0.00Ωm ~ 9999kΩm
- ★ **Ground Voltage:** 0.00V~600V AC
- ★ **Use Voltage:** below AC 600V
- ★ **Test Frequency:** 128Hz
- ★ **Data Storage:** 500 groups
- ★ **Range Automatic Shift**



PRODUCT INTRODUCTION

FR3010E grounded resistance soil resistivity tester, also called the four-wire grounding resistance tester or the soil resistivity tester, is a commonly used instrument for measuring grounding resistance. It used a large-size LCD gray-white screen backlight display and microprocessor technology to pass the micrometer, to use microprocessor control 2-wire, 3-wire, 4-wire to test ground resistance and soil resistivity.

FR3010E has many grounding test functions to quickly and comprehensively measure various parameters in the grounded network. It is a new generation grounding measurement instrument that replaces the traditional rocking table measurement. It uses fast filtering techniques to minimize interference. Store 500 sets of data at the same time.

TECHNICAL PARAMETERS

Function	2-wire、3-wire、4-wire test ground resistance、soil resistivity、ground voltage		
Range	Ground resistance : 0.00Ω ~ 30.00kΩ	Resolution : 0.01Ω	Accuracy : ±2%rdg±5dgt
	Soil resistivity : 0.00Ωm ~ 9999kΩm	Resolution : 0.01Ωm	Accuracy : ρ=2πaR
	Ground voltage : AC 0.00 ~ 600V	Resolution : 0.01V	Accuracy : ±2%rdg±3dgt
Power Supply	1.5V (LR14) Alkaline Battery 6 Section		
Measurement Mode	Precise four-wire、three-wire measurement, simple two-wire measurement test ground resistance		
Measurement Method	Grounding resistance: rated current change pole method, test current 20mA Max Soil resistivity: quadrupole; Ground voltage: average value rectification(S-ES interface)		
Test Frequency	128Hz		
Short Circuit Test Current	AC > 10mA		
Open Circuit Test Voltage	AC 28V Max		
Electrode Spacing Range	Can be set to 1m~100m		
Shift	Grounding resistance: 0.00Ω ~ 30.00kΩ automatic shifting; Soil resistivity: 0.00Ωm ~ 9999kΩm automatic shifting		
Backlight	Controllable gray light backlight, suitable to use in dim place		
Display mode	4-bit large LCD display, gray backlight		
Measure indication	LED blinking during measurement		
LCD Display Field	108mm×65mm		
Meter Dimension	L/W/H: 240mm×188mm×85mm		
Standard Test Line	4 strips: Red 15m, Black 15m, Yellow 10m, Green 10m, each 1 strip		
Easy test line	2 strips: Yellow 1.5m, Green 1.5m each 1 strip		
Ground Voltage	Test below AC600V(ground voltage measurement function can't be used to measure commercial power)		
Data Storage	500 groups, "MEM" storage instruction, "FULL" symbol indicates that storage is full		
Overflow Display	Exceed measurement range overflow function: "OL" symbol display		
Alarm Function	Alarm when the measured value exceeds the alarm setting value		
Automatic Shutdown	The instrument automatically shuts down after about 15 minutes without operation.		
Power consumption	Standby: 40mA Max(Backlight off) ,Turn on backlight: 43mA Max ,measuring : 120mA Max(Backlight off)		
Weight	Instrument: 1280g (including battery),test line: 890g (including simple test line)		
Production Compliance	IEC61010-1, CAT III 300V, CAT IV 150V, IEC61010-031, IEC61557-1, IEC61557-5, JIG 366-2004, Pollution Grade 2		
IP	IP45		

FR3015 Insulation Resistance Tester

- ★ **Function: Insulation resistance test, voltage test**
- ★ **Rated voltage: 100 ~ 2500V**
- ★ **Insulation resistance: 100GΩ MAX**
- ★ **Insulation resistance resolution rate: 0.01MΩ**
- ★ **voltage range: 0 ~ 1000V**
- ★ **voltage resolution: 0.1V**
- ★ **With 500 sets of data storage functions**



PRODUCT INTRODUCTION

FR3015 Digital insulation resistance table is also known as high-voltage insulation resistance tester for testing for insulation resistance. This instrument has the functions of LCD large-screen gray backlight display, data storage, data inspection, alarm, automatic shutdown and other functions. At the same time, it also has the function of measured DC voltage AC voltage absorption ratio and polarization index. The whole machine is beautiful and high-end, the range is wide, the resolution is high, the operation is convenient, the carry is convenient, the accurate, reliable, and stable performance, and strong anti-interference ability.

FR3015 also has a shock-proof, dustproof, moisture-proof structure, and adapts to the harsh working environment. It is an indispensable instrument that is commonly used by industrial enterprise departments that electricity, posts and appliances, communications, electromechanical installation and maintenance, and use power as industrial power or energy. It is suitable for measuring the resistance value of various insulating materials and insulation resistances of transformers, motors, cables and electrical equipment.

The FR3015 digital insulation resistance table consists of a medium and large-scale integrated circuit. This table has a large output power and a large output voltage level (up to 5 voltage levels). The rated insulation test voltage range is 100 to 2500V, and the measured resistance measurement range is 0.01MΩ to 100GΩ. The DC voltage measurement range is 2 to 1000V, and the AC voltage measurement range is 2 to 1000V.

MODEL CONTRAST

Model	FR3015	FR3015E
Rated voltage	100 ~ 1000V	250 ~ 2500V
Insulation resistance	0.6MΩ ~ 50Ω	0.10MΩ ~ 100GΩ

TECHNICAL PARAMETERS

Function	Insulation resistance test, voltage test	
Base condition	23 °C ± 5°C , below 75%RH	
Rated voltage (V)	100 ~ 2500V	
Measuring voltage (V)	The rated voltage × (1 ± 10%)	
Insulation resistance range (GΩ)	100GΩ MAX	Resolution : 0.01MΩ
Insulation resistance resolution	0 ~ 1000V	Resolution : 0.1V
AC voltage range	0~750V	Resolution : 0.1V
Output short-circuit current	≥1.5mA (1000V)	
A absorption ratio and polarization index measurement	Yes	
Power supply	1.5V (AA) alkaline battery 8 section 8	
Backlight	Controlled gray-white screen backlight, suitable for dark fields	
Display mode	4 large LCD display, gray and white screen backlight	
LCD display size	73mm × 43mm	
Meter size	175mm (long) × 112mm (width) × 53mm (height)	
Test line	High-pressure test line red 1 meter, black 1 meter, green line 1 meter	
Data storage	500 groups, flashing display "FULL" symbol indicates that the storage is full	
Data review	Data viewing function: "MEM" symbol display	
Overflow	Extraction overflow function: "ol" symbol display	
Alarm function	When the measurement value exceeds the alarm setting value	
Power consumption	Standby: 18MA MAX (Backlight shutdown)	Putting on the backlight: 43MA MAX
	Measurement: 326mA Max (Backlight shutdown)	
Quality	1230g (including battery)	
Production Compliance	IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529 (IP54), pollution, etc. 2. CAT III 600V	
IP	IP54	

FR3025 Series Insulation Resistance Tester

- ★ **Function** : insulation resistance test , voltage test
- ★ **Rated Voltage(V)** : 250V ; 500V ; 1000V ; 2500V ; 5000V
- ★ **Insulation Resistance Range** : 0.01MΩ~200GΩ
- ★ **DC Voltage Range** : 0 ~ 1000V
- ★ **AC Voltage Range** : 0 ~ 750V
- ★ **Data Storage** : 500 groups



PRODUCT INTRODUCTION

FR3025 digital insulation resistance meter, also name megohmmeter, high voltage insulation resistance tester, is used for insulation resistance test. This instrument has a large LCD screen gray backlit display, data storage, data review, alarm, automatic shutdown and other functions. At the same time, it also has the function of measuring absorption ratio and polarization index of AC voltage and DC voltage. The machine is beautiful and upscale, has a wide range, high resolution, convenient operation, easy to carry, accurate, reliable, stable performance, strong anti-interference ability.

FR3025 also has a shockproof, dustproof, moisture-proof structure, and adapts to the harsh working environment. It is a commonly used and indispensable instrument for electric power, post and telecommunications, communications, and industrial enterprises that use electricity as industrial power or energy. It is suitable for measuring the resistance value of various insulating materials and the insulation resistance of transformers, motors, cables and electrical equipment.

MODEL CONTRAST

Model	FR3025 (2500V)	FR3025E (5000V)
Rated voltage(V)	100 : 250 : 500 : 1000 : 2500	250 ; 500 ; 1000 ; 2500 ; 5000
Insulation resistance range (GΩ)	0.01MΩ ~ 200GΩ	0.01MΩ ~ 200GΩ
Resolution	0.01MΩ	0.01MΩ
Accuracy	±3%rdg±5dgt	±3%rdg±5dgt
Output short-circuit current	≥2mA(2500V)	≥2mA(5000V)
DAR & PI	Have	Have

TECHNICAL PARAMETERS

Function	Insulation resistance test, voltage test
Test voltage(V)	Rated voltage x (1±10%)
Voltage range	DC: 0 ~ 1000V , resolution : 0.1V; AC:0 ~ 750V , resolution : 0.1V
Power	1.5V (LR14) Alkaline Battery 6 Section
Backlight	Controllable gray screen backlight, suitable to use in dim place
Display mode	4-bit large LCD display, gray screen backlight
LCD Display Size	108mm×65mm
Meter Dimension	L/W/H: 240mm×188mm×85mm
Test Line	High voltage test line red 1 meter, black 1 meter, green line 1 meter
Data Storage	500 groups, "FULL" symbol indicates that storage is full
Alarm Function	Alarm when the measured value exceeds the alarm setting value
Power Consumption	Standby: 40mA Max(backlight off), turn on backlight: 43mA Max, measure :80mA Max (backlight off)
Weight	1230g (including battery)
Automatic shut-down	Automatic shutdown after 15 minutes boot
Insulation Resistance	≥50MΩ (1000V)
Production Compliance	IEC61010-1 (CAT III 300V、CAT IV 150V、Pollution Grade 2)
IP	IP54

FR3060 Series DC Low Resistance Tester

- ★ **Function:** metal connection, wire resistance, transformer motor coil resistance, flange contact resistance and other low resistance, contact resistance test
- ★ **DC resistance range:** 0.001mΩ~300.0KΩ
- ★ **Detection method:** four-wire test
- ★ **Resolution:** 1uΩ
- ★ **Test current:** ≥1A
- ★ **With large capacity rechargeable battery**
- ★ **Port anti-burn, continuous uninterrupted test, high test efficiency**



PRODUCT INTRODUCTION

FR3060 DC low resistance tester also known as micro-ohmmeter, ohmmeter, DC grounding resistance tester, using the microprocessor technology, four-wire test, safety, precision and reliability. It is the instrument that detects the equipotential bonding quality of metal components such as metal riveting resistors of vehicles, ships and aircrafts, equipment housings, lightning protection belts, ground beams, structures, cabinets, steel bars, water pipes, windows, guardrails, radiators, and assembly lines. It is also possible to measure the resistance of the connecting conductor between the various electrical equipment and the grounding grid, the DC resistance of the transformer. It can also measure the contact resistance of switches and socket contacts, the low value resistance of coils, metal wires, solder joints, etc. It also has the function of measuring DC voltage and AC voltage

The monitoring software has on-line real-time monitoring and historical query functions, dynamic display, alarm value setting and alarm indication function, and functions such as reading, reviewing, saving, reporting and printing of historical data.

MODEL CONTRAST

Model	FR3060A	FR3060
Resistance range	0.01mΩ ~ 30.00KΩ	0.001mΩ ~ 300.0KΩ
Resolution	10uΩ	1uΩ
Data storage	500 groups	500 groups
USB connect computer	No	Have
Rechargeable function	Have	Have

TECHNICAL PARAMETERS

Function	Mainly used to measure the wire resistance of the cable, the contact resistance of the switch, the connector, the relay, the resistance of the coil, the motor, the transformer winding, the metal riveting resistance, the connection resistance test between the metal components, the low value resistance test, the ground floor ground Resistance test of connecting conductor, contact resistance test, etc.		
Total DC resistance range	FR3060: 0.001mΩ ~ 300.0KΩ	resolution : 0.001mΩ	accuracy : ±0.1%FS
	FR3060A: 0.01mΩ ~ 30.00KΩ	resolution : 0.01mΩ	accuracy : ±0.1%FS
Test method	Four-wire test		
Short circuit test current	≥1A		
Open circuit voltage	≤4.2V		
Over load protection	Have		
Capacity factor	Measure capacity factor≤8W		
Power	DC 3.7V 2500mAh Large-capacity lithium battery		
Display mode	LCD display, gray screen backlight		
Instrument size	L/W/H : 187 mm*119 mm*50mm		
Test line length	About 60cm , red, black each 1		
Measurement time	About 2 times/sec		
USB interface	With micro USB interface		
Data storage	500 groups, "MEM" storage instructions, display "FULL" symbol indicates that the storage is full		
Automatic shut-down	The instrument automatically shuts down after about 15 minutes without operation.		
Production Compliance	IEC61010-1、CAT III 600V、Pollution Grade 2、JJG724-1991、JJG166-1993、DL/T967-2005		
IP	IP54		

FR9032 Leakage Switch Tester

- ★ AC voltage range: 0V ~750V
- ★ DC voltage range: 0V~1000V
- ★ Test mode: Manual (Mt) or Automatic (At)
- ★ Power supply: 1.5V (AA) alkaline batteries 8 pieces
- ★ 4-digit super large LCD display, gray and whitescreen backlight



PRODUCT INTRODUCTION

FR9032 leakage switch tester, also known as leakage switch tester, leakage protector tester, residual current action protector tester, residual current action protector tester, is an essential testing instrument for engineering quality supervision stations and construction companies. The operating time and operating current of the leakage switch can be measured. It is mainly used to test the leakage action current, leakage non-operation current and leakage action time of the leakage protector. It can be widely used in power supply departments, agricultural power departments, leakage protector manufacturers, labor safety inspection departments in construction, mining, machine tool and other industries, as well as electricians.

FR9032 Leakage switch tester, composed of host, test line, etc. Simple and portable, 4-digit super large LCD display, gray and white screen display, easy to operate and easy to use. Large-capacity storage of 500 sets of data, voltage measurement range: 1.0V ~ 1000 V, measurement accuracy: $\pm 5\% \text{dgt} \pm 5 \text{dgt}$. The test leakage current is from 15 to 500mA, which is divided into ten gears (15; 30; 50; 75; 100; 150; 200; 250; 300; 500mA), and the test leakage current action time range is 0 to 999mS.

TECHNICAL PARAMETERS

Function	Leakage protector action time measurement, leakage protector action current measurement, voltage measurement.		
AC voltage range	0V ~ 750V	Accuracy: $\pm 5\% \text{dgt} \pm 5 \text{dgt}$	Resolution: 0.1V
DC voltage range	0V ~ 1000V	Accuracy: $\pm 5\% \text{dgt} \pm 5 \text{dgt}$	Resolution: 0.1V
Current gear	15; 30; 50; 75; 100; 150; 200; 250; 300; 500 mA	Accuracy: $\pm 10\% \text{dgt} \pm 5 \text{dgt}$	Resolution: 1mA
Test mode	Manual (Mt) or Automatic (At)		
Power supply	1.5V (AA) alkaline batteries 8 pieces		
Backlight	Controllable gray and white screen backlight, suitable for use in dark places		
Display mode	4-digit super large LCD display, gray and white screen backlight		
LCD display size	73 mm x 43 mm		
Meter size	175mm (L) x 112mm (W) x 53mm (H)		
Test line	Test line red 1 meter, black 1 meter		
Data storage	500 groups, flashing "FULL" symbol means storage is full		
Data review	Data query function: "MEM" symbol display		
Battery voltage	The battery voltage is insufficient, and the low battery symbol " " is displayed		
Power consumption	Standby: 53 mA Max (backlight off)		
	Power on backlight: 75 mA Max		
	Measurement: 108 mA Max (with backlight on)		
Quality	1230g (including battery)		
Operating Temperature and Humidity	-10°C ~ +50°C < 85%RH		
Storage Temperature and Humidity	-15°C ~ +55°C < 90%RH		
Production Compliance	IEC61010-1 CAT III 600V, IEC61010-031, IEC61326, pollution degree 2		
IP	IP45		

FR90 Multifunction Non-Contact Induction Test Pen

- ★ Voltage detection range: 12V~ 1000V AC
- ★ Frequency: 50Hz/60Hz
- ★ Alarm mode: sound and light alarm
- ★ Automatic detection of electric field close to the measured point
- ★ White LED lighting



PRODUCT INTRODUCTION

FR90 multi-functional non-contact induction test pen is widely used in the fields of electronic electrician and so on. The electric pen meter is easy to operate, safe and efficient, and bids farewell to the traditional contact method of electricity measurement. Equipped with high-performance processing chips, high-sensitivity sensing probes, intelligent zero-fire wire identification for partitions, breakpoint detection, insulation operation, safe zero contact, and easier inspection and maintenance of home improvement lines. The whole machine is beautiful and high-grade, anti-fall and durable, convenient to operate, easy to carry, stable in performance and strong in anti-interference ability. Moreover, it has a shockproof, dustproof, and moisture-proof structure, and is the preferred electrical measurement tool for electronic electricians.

TECHNICAL PARAMETERS

Function	Intelligent identification of neutral and live wires, line breakpoint detection, non-contact voltage detection, lighting flashlight, sound and light alarm, low voltage prompt, automatic shutdown
Voltage detection range	12V~1000V AC
Frequency	50Hz/60Hz
Alarm method	Sound and light alarm
Automatic Identification	Automatic detection of electric field close to the measured point
Zero fire line judgment	Judging by the signal strength, the strong signal is the live line, and the weak signal is the neutral line.
Line break detection	Line breakpoints under live conditions, quickly identify the live end and the uncharged end
Signal strength indicator	The buzzing sound changes from slow to fast; the indicator light flashes from slow to fast
Flashlight	White LED lighting
Low voltage reminder	When the battery voltage is lower than 2.4V, the power light flashes and the buzzer prompts
Automatic shut-down	If there is no operation within 5 minutes, it will automatically shut down if no voltage signal is detected
1 meter drop test	Made of high-quality materials, durable and drop-proof, shock-proof and shake-proof
Working temperature and humidity	-20°C~40°C ; over 80%rh
Storage temperature	-20°C~0°C; below 70%rh
Power supply	2*1.5V AAA batteries
Weight	About 32g (without battery)
Size	158mmx28mmx23mm
Production Compliance	CAT III 1000V CAT IV 600V
IP	IP54



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