FR3025E Insulation Resistance Meter (Megohmmeter 5000V)



Ⅰ. Characteristic

FR3025E digital insulation resistance meter, also known as megohmmeter, high-voltage insulation resistance tester, is used for insulation resistance testing. The instrument has a large LCD screen with gray and white backlight display, data storage, data access, alarm, automatic shutdown and other functions. At the same time, it also has the function of measuring the absorption ratio of DC voltage and AC voltage and polarization index. The whole machine is beautiful and high-grade, with a wide range, high resolution, convenient operation, convenient carrying, accurate, reliable, stable performance and strong anti-interference ability.

FR3025E also has a shockproof, dustproof and moistureproof structure, and is suitable for harsh working environments. It is a common and indispensable instrument for telecommunications, electricity, meteorology, computer rooms, oil fields, electromechanical installation and maintenance, 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.

FR3025E digital insulation resistance meter is composed of medium and large scale integrated circuits. This watch has large output power and many output voltage levels (there are 5 voltage levels). The rated insulation test voltage range is 250~5000V, and the insulation resistance measurement range is 0.01MΩ~200GΩ. The DC voltage measurement range is 0~1000V, and the AC voltage measurement range is 0~750V.

Ⅱ. Range&Technical Specification

Features	Insulation resistance test, voltage test
Baseline conditions	23℃±5℃, below 75%rh
Rated voltage (V)	250; 500; 1000; 2500; 5000 Accuracy ±3%rdg±5dgt
Measuring voltage (V)	Rated voltage × (1±10%)
Insulation resistance	0.01MΩ～200GΩ Accuracy ±3%rdg±5dgt

range (GΩ)	
Insulation Resistance Resolution	0.01MΩ
DC voltage range	0～1000V
DC voltage resolution	0.1V
AC voltage range	0～750V
AC Voltage Resolution	0.1V
Output short circuit current	≥2mA(5000V)
Absorption Ratio and Polarization Index Measurements	Have
Power supply	1.5V (LR14) alkaline batteries 6
Backlight	Controllable gray and white screen backlight, suitable for use in dark places
Display mode	4-digit large LCD display, gray and white screen backlight
LCD display size	108mm×65mm
Meter size	240mm (L)×188mm (W)×85mm (H)
Test line	High voltage rod red 1 meter, high voltage test line black 1 meter, green line 1 meter
Data storage	500 groups, flashing "FULL" symbol indicates that the storage is full
Data access	Data access function: "READ" symbol display
Overflow display	Overrange overflow function: "OL" symbol display
Alarm function	When the measured value exceeds the alarm setting value, an alarm prompt will be issued
Power consumption	Standby: 40mA Max (backlight off)
	Turn on the backlight: 43mA Max
	Measurement: 80mA Max (backlight off)
Quality	1230g (including battery)
Battery voltage	The battery voltage is insufficient, and the low battery symbol " ▭ " is displayed
Automatic shut-down	The meter shuts down after about 15 minutes of inactivity
Insulation resistance	≥50MΩ (1000V)
Pressure resistance	AC3kV/50Hz 1min
Operating temperature and humidity	-10℃～+50℃＜85%RH
Storage temperature and humidity	-15℃～+55℃＜90%RH
Suitable for safety regulations	IEC61010-1, IEC1010-2-31, IEC61557-1, 5, IEC60529 (IP54), pollution, etc. 2, CAT Ⅲ 300V

Ⅲ. Packing List

Meter	1 set
High pressure rod	1 red
High Voltage Test Lead	2 (black, 1 green each)
Battery	6 1.5V alkaline batteries
Manual, Warranty	1 set
Instrument box	1

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