

# FR3025E Digital Insulation Resistance (Megohmmeter 5000V)



## I. Product Introduction


FR3025E 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.

FR3025E also has a shockproof, dustproof, moisture-proof structure, and adapts to the harsh working environment. It is a commonly used and indispensable instrument for Telecommunications, electricity, weather, 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. The output power of the watch is large, and the output voltage level is more (has 5 voltage levels). Rated insulation test voltage range 100 ~ 2500V insulation resistance measurement range 0.01M $\Omega$  ~ 200G $\Omega$ . DC voltage measurement range 0~1000V AC voltage measurement range 0~750V

## II. Technical Specification

Function	Insulation resistance test, voltage test
Base conditions	23°C $\pm$ 5°C, below 75%rh
Rated Voltage(V)	250;500;1000;2500;5000
Test Voltage(V)	Rated voltage x (1 $\pm$ 10%)
Insulation Resistance Range	0.01M $\Omega$ -200G $\Omega$ Accuracy: $\pm$ 3%rdg $\pm$ 5dgt
Insulation Resistance Resolution	0.01M $\Omega$
DC Voltage Range	0-1000V
DC Voltage Resolution	0.1V
AC Voltage Range	0-750V
AC Voltage Resolution	0.1V

<b>Output short-circuit Current</b>	$\geq 2\text{mA}$ (2500V)
<b>Absorption Ratio and Polarization Index Measurement</b>	Have
<b>Power Supply</b>	1.5V (LR14) Alkaline Battery 6 Section
<b>Backlight</b>	Controllable gray screen backlight, suitable to use in dim place
<b>Display mode</b>	4-bit large LCD display, gray screen backlight
<b>LCD Display Size</b>	108mm×65mm
<b>Meter Dimension</b>	L/W/H: 240mm×188mm×85mm
<b>Test Line</b>	High voltage test line red 1 meter, black 1 meter, green line 1 meter
<b>Data Storage</b>	500 groups, "FULL" symbol indicates that storage is full
<b>Data Review</b>	Data review function: "READ" symbol display
<b>Overflow Display</b>	Exceed measurement range overflow function: "OL" symbol display
<b>Alarm Function</b>	Alarm when the measured value exceeds the alarm setting value
<b>Power Consumption</b>	Standby 40 mA Max (backlight off)
	turn on backlight: 43 mA Max
	measure: 80 mA Max (backlight off)
<b>Weight</b>	1230g (including battery)
<b>Battery Voltage</b>	Insufficient battery voltage, showing low battery symbol 
<b>Automatic shut-down</b>	automatic shutdown after 15 minutes boot
<b>Insulation Resistance</b>	$\geq 50\text{M}\Omega$ (1000V)
<b>Pressure Resistance</b>	AC 3kV/50Hz 1min
<b>Working Temperature and Humidity</b>	-10°C~50 °C; below 80% rh
<b>Storage Temperature and Humidity</b>	-15°C~55°C; below 90% rh
<b>Suitable for Safety Regulations</b>	IEC61010-1, IEC1010-2-31, IEC61557-1, 5, IEC60529 (IP54), pollution grade 2, CAT III 300V

### III. Accessories

<b>Instrument</b>	1PC
<b>High voltage rod</b>	1PC red
<b>High voltage test line</b>	2PCS (black,green each 1)
<b>Battery</b>	1.5V Alkaline battery 6 section
<b>Manual, certificate</b>	1SET
<b>Instrument box</b>	1 个



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