

1000V / 2500V digital insulation tester, FR3015 / 3015E



FR3015 / FR3015E is a digital insulation resistance meter with a maximum nominal insulation measurement voltage of 1000 V (2500 V for FR3015E) and a maximum insulation resistance measurement range of 50 GΩ (100.0 GΩ for FR3015E). The measuring range of DC voltage is 2.0-1000 V, the measuring range of AC voltage is 2.0-1000 V.

FR3015 Digital Insulation Resistance Tester with large LCD screen, backlit display, data storage, data recall, alarm limit value, automatic shutdown is an excellent measuring tool. It is also suitable for the measurement of DC/AC voltage, absorption ratio and polarization index. High measurement resolution, comfortable handling, light weight, accuracy, reliable and stable performance, and high interference suppression make the device excellent for everyday measurements.

In addition to all this, the use value of the FR3015 is greatly increased by the impact-resistant, dust-resistant and moisture-resistant structure, which provides safe use even in rough working environments. It is suitable for measuring the resistance of various insulating materials, as well as measuring the insulation resistance of transformers, motors, cables and electrical equipment.

Technical specifications

- Reference conditions: 23±5°C, ≤75% RH
- **FR3015**
 - Test voltage: 100, 250, 500, 1000 V ±10%
 - Insulation resistance measurement range: 0.01 MΩ... 50.0 GΩ
 - Resolution of insulation resistance measurement: 0.01 MΩ
 - Accuracy: ±(5% readings +5 digits)
- **FR3015E**
 - Test voltage: 250, 500, 1000, 2500 V ±10%
 - Insulation resistance measurement range: 0.06 MΩ... 100.0 GΩ
 - Resolution of insulation resistance measurement: 0.01 MΩ
 - Accuracy: ±(5% readings +5 digits)
- DC voltage
 - Measuring range: 2.0... 1000 V
 - Resolution: 0.1 V
- AC voltage
 - Measuring range: 2.0... 1000 V
 - Resolution: 0.1 V
- Output short-circuit current: ≥1.5 mA (at 1000 V)
- Measurement of absorption factor and polarization index
- Alarm if the measured value exceeds the set limit value
- Guard input
- Data storage
- Memory for storing 500 groups of measured values
 - Data can be retrieved to the display
 - Display: 4-digit variable backlight LCD with super-large digits + analogue scale, 73×43 mm
- Over-range signal: OL message displayed
- Power supply: 8×1.5 V (AA) alkaline batteries
- Low battery indication: empty battery symbol displayed
- Power requirement without backlight: max. 18 mA
- Power requirement with backlight: max. 43 mA
- Current demand during measurement: max. 326 mA (with backlight)
- Dimensions / weight: 175 (length) × 112 (width) × 53 mm (height) / 1230 g (including batteries)
- Operating temperature, humidity: -10... 50°C, ≤85% RH
- Storage temperature, humidity: -15... 55°C, ≤90% RH
- Test voltage: 3 kV AC /50 Hz, 1 minute
- Applicable standards: IEC61010-1, IEC1010-2-31, IEC61557-1.5, IEC60529(IP54), Pollution degree 2, CAT III 300 V

Standard accessories

- 3 high voltage test leads (black, red, green)
- User manual
- Warranty certificate
- Calibration certificate