

## 2.5 and 5kV insulation testers, FR3025/3025E



- Rated test voltages (V): 100V~2,5kV (FR3025), 250V~5kV (FR3025E)
- Insulation resistance range: 0.01 M ~ 200 G
- DAR, PI measurement
- DC voltage measurement range: 0 ~ 1000 V
- AC voltage measurement range: 0 ~ 750 V
- Automatic discharge
- Automatic range selection
- Data storage: 500 measurement groups
- Automatic power of

FR3025 digital insulation resistance tester can perform insulation test by up to 2,5 kV, while the FR2025E version can perform it by up to 5kV. The large measuring range with its automatic range selection extends up to 200 G for the both versions. Additionally

to the basic insulation test the instruments have the capability to measure absorption ratio, polarisation index, DC voltage up to 1000V and AC voltage of up to 750 V. The stable test voltage, the high accuracy and interference suppression, the easy operation and the light weight insures quick and reliable test.

The shock-, dust- and moisture-proof housing makes the instrument safely usable even in harsh environmental conditions.

### SPECIFICATIONS

#### Insulation test

Range	Best Resolution	Accuracy
<b>FR3025</b>		
Nominal measuring voltage: 100V, 250V, 500V, 1000V, 2500V ±10%		
0,01 M ~ 200 G	0,01M	±3% rdg ±5 digits
<b>FR3025E</b>		
Nominal measuring voltage: 250V, 500V, 1000V, 2500V, 5000V ±10%		
0,01 M ~ 200 G	0,01M	±3% rdg ±5 digits

- Automatic range selection
- Short circuit current: 2mA
- Capacity Load: max. 1µF
- Measurement of DAR and PI

#### DC voltage

- Range: 0 ~ 1000V
- Resolution: 0,1V

#### AC voltage

- Range: 0 ~ 750V
- Resolution: 0,1V

- Reference conditions: 23°C±5°C, 75% RH
- Power supply: DC 9V 6xLR14 alkaline battery
- Low battery status indication: empty battery symbol
- Display: 4-digit, large, backlit LCD, 108x65 mm
- Dimensions: L/W/H: 240 x 188 x 85mm
- Weight: 1230 g (with battery)
- Alarm if the measured value is greater than the set value
- Measuring time: voltage 2/sec, insulation resistance 7 seconds
- Internal memory: 500 data groups, data can be recalled to the display
- Energy consumption
  - Standby state: max. 40mA (backlight of ), Backlight on: max. 43mA, Measurement: app.75 mA max (backlight of )
- Automatic power-of : after 15 minutes
- Insulation resistance: 200M (500 V between measuring circuit and housing)
- Test voltage: AC5160 Vrms/50Hz 1 minute (between measuring circuit and housing)
- Operating temperature and humidity: -10... +40°C < 80%RH
- Storage temperature and humidity: -20... +60°C < 70%RH
- Relevant standards / regulations: IEC61326 (EMC), IEC61010-1 (CAT III 300V, CAT IV 150V, degree of pollution: 2



#### Accessories:

- High-voltage measuring tip with cable red 1 m, high-voltage measuring wire black 1 m, green 1 m
- Carry bag
- Measuring tweezers
- Protocol
- User's Guide

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