Designed to meet international safety standards
IEC 61243-3 / IEC 61010-1
Measurement Category (CAT.) IV 600V

- Self-Diagnostic test
- AC and DC voltage tests up to 690V with LED
- Polarity indication
- Single-pole phase test
- Phase rotation test
- Double molding gives comfortable grip
- Continuity test
- Auto-power ON / OFF
- Pen light for illuminating measurement points
- Variable distance in socket, 16.7mm or 19.0mm
- Variable probe Tips, 1.6mm or 4mmØ
- Probe cover protects user and probe Tips
- IP65 (IEC 60529)
Specifications

Voltage Test
- Voltage Range: 12–690V AC/DC
- Nominal Voltage: 12/24/50/120/230/400/690V, AC/45–400Hz, DC (1)
- Tolerance (Threshold Voltage):
  - Light on at more than: 7±3V (12V LED)
  - 18±3V (24V LED)
  - 37±5V (50V LED)
  - 75±5% of nominal voltage (120/230/400/690V LED)
- Response Time: < 0.5s at 100% of each nominal voltage
- Peak Current: Is=3.5mA (at 690V)
- Internal Battery Consumption: Approx. 33mA (battery 3V, measuring 690V AC)
- Battery Life: Approx. 2500 operations (30s ON/240s OFF duty)

Single-Pole Phase Test
- Voltage Range: 100–690V AC (45–100Hz)
  - 180–690V AC (100–400Hz)
- System: Three-phase 4-wire system
  - 200–690V phase-to-phase
  - 100–400V earth-to-phase
  - AC 50/60Hz
- Phase Range: 120±5 degree
- Continuity Test: 0–400kΩ×50%
- Test Current: Approx. 1.5μA (battery 3V, DC)
- Internal Battery Consumption: Approx. 30mA (battery 3V, DC)

Reference Condition
- Battery: 3V (IEC LR03 1.5V type)
- Temperature: -10–55°C operation
  - -20–60°C storage
- Humidity: Max 85% RH

Safety
- Standard: IEC61010-1, CAT.II/IV 600V
- Category: IEC61243-3, CAT.II 690V
- IP Rating: IP65 (IEC60529)
- Dimensions: 241.5(L)×68.5(W)×28.5(D) mm
- Weight: 230g (including batteries)

Voltage Test (Double-pole Test)
- Connect both probes to the system under test.
- The voltage is indicated by LEDs.
- Buzzer sounds and Live circuit LED lights up when a threshold voltage of 50V is exceeded.
- Voltage polarity is indicated in following manner.

Single-pole Phase Test
- Live circuit LED lights up and buzzer sounds when a voltage of approx. 100V AC or more exists in the object under test.

Distance Between Probes
- Distance between probes is selectable, either 16.7mm or 19.0mm, by changing probes (L1 and L2) position manually.

Probe Protection Cover

4mm Tips Replacement
- How to fixing 4mm Tips on L1 probe – and L2 probe +.

Safety Warnings:

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