

The Tekneka 860 is a rugged, handheld multifunction installation tester built for electrical safety verification in low-voltage distribution systems up to 1000V AC/1500V DC. It brings together all the measurements required for periodic inspection and commissioning into a single compact instrument, loop impedance, RCD testing, insulation resistance, earth resistance, continuity, AC voltage, and phase sequence with results displayed on a bright 3.5-inch TFT colour screen. Designed to comply with BS EN 61557 and built to CAT III 600V, the 860 is suitable for use by qualified electricians and test engineers in industrial, commercial, and residential environments. Bluetooth connectivity and onboard data logging allow records to be transferred and reviewed without additional cables.



Features

- Loop impedance testing: L-PE Hi-Amp (8~25A), L-PE No-Trip (<15mA), and L-N
- RCD testing: AUTO sequence, manual ($\times\frac{1}{2}$, $\times 1$, $\times 2$, $\times 5$), PASS/FAIL result and RAMP modes
- Insulation resistance measurement at 125V, 250V, 500V, and 1000V DC
- 3-wire earth resistance (RE) test with optional accessory stake kit
- Low Ohm / Continuity measurement with lead-resistance zeroing
- AC voltage (80~500V) and frequency (45~65Hz) display: No TEST button needed
- Phase sequence detection for 3-phase systems (L1, L2, L3)
- 3.5-inch TFT colour display (320 × 240) with backlit icons and status annunciators
- Bluetooth data transfer and configurable datalog function
- IP65 weatherproof rating: suitable for site use
- CAT III 600V, Double Insulation
- Touch-pad safety guard on TEST button: alerts operator if body potential exceeds 100V
- Bluetooth and Micro SD card slot for data export

Applications

- Initial verification and periodic re-inspection of fixed electrical installations
- Loop impedance and prospective fault current (PFC/PSC) measurement
- RCD performance testing to BS EN 61008 and BS EN 61009
- Insulation resistance testing of cables and equipment
- Earth electrode resistance measurement
- Continuity of protective conductors and equipotential bonding
- Phase sequence verification on 3-phase supplies
- Industrial, commercial, and domestic electrical maintenance



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Technical Specification

1. INSULATION

Terminal Voltage	Range	Accuracy	Test Current	Short Circuit Current
125V	0.125~1000MΩ	±(2% rdg + 10)	1mA@ load 125KΩ	≤1mA
250V	0.250~1000MΩ	±(2% rdg + 10)	1mA@ load 250KΩ	≤1mA
500V	0.500~1000MΩ	±(2% rdg + 10)	1mA@ load 500KΩ	≤1mA
1000V	1.000~1000MΩ	±(3% rdg + 10)	1mA@ load 1MΩ	≤1mA

2. LOW OHM

Range	Accuracy	Max. Open Circuit Voltage	Overload Protection
0.000~9.999Ω	±(1.5% rdg + 30)	5.0V	250Vrms
10.00~99.99Ω	±(2% rdg + 6)		
100.0~999.9Ω			
1000~2000Ω			

6. LOOP RESISTANCE | L-PE(High-Amp)

Range	Accuracy
0.23~99.99Ω	±(8% rdg + 4d)
10.0~99.9Ω	
100~999Ω	

LOOP RESISTANCE | L-PE(No Trip)

Range	Accuracy
0.23~99.99Ω	±(13% rdg + 6d)
10.0~99.9Ω	
100~999Ω	

3. EARTH RESISTANCE

Range	Accuracy
0.00~99.99Ω	±(2% rdg + 30d)
100.0~999.9Ω	±(2% rdg + 6d)
1000~2000Ω	

4. RCD (BS EN 61557-6)

Test Current	Accuracy
×1/2, ×1, ×2, ×5	±(10% rdg + 1d)

5. VOLTAGE AND FREQUENCY

Range	Accuracy
AC-DC(V) 80-500V	±(10% rdg + 1d)
(Hz) 45-65Hz	±2Hz

LOOP RESISTANCE | L-N (Line Resistance)

Range	Accuracy
0.23~99.99Ω	±(8% rdg + 5d)
10.0~99.9Ω	
100~999Ω	

General Specification

Display	3.5" LCD, 320 x 240px
Electrical Safety	600V CAT III
Data Logging	Yes
Interface	Bluetooth (Mobile App), Micro SD Card
Operating Temperature & Humidity	0~45°C, 95%RH
Storage Temperature	-10~60°C
Protection Rating	IP65
Protection Classification	Double Insulation
Power Supply	8 x 1.5V AA rechargeable Ni-MH batteries
Power Adapter	15V 2.4A
Continuous Operating Time	Avg. 15 hours
Compliance Standards	Safety: IEC 61010-1, IEC61326-1
Dimension (L x W x H)	24.2 x 10.5 x 14.5cm
Weight	Device: 1.8Kg, Package: 4.5Kg

Package Includes

- Power Adapter
- Test Leads
- Mains Measuring Cable
- Crocodile Clips
- USB Cable
- 8 x 1.5V Ni-MH "AA" Batteries
- Neck Strap
- User Manual
- Carrying Case



Ordering Info.

860..... Multifunction Installation Tester