



# Model 1154 TMF

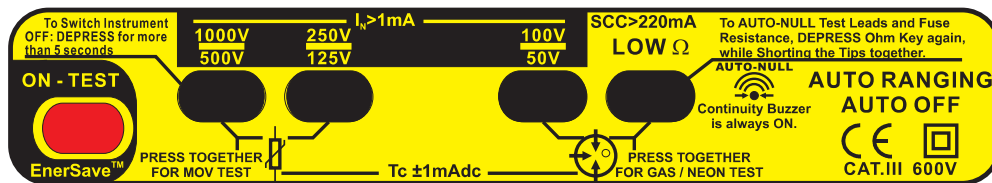
## Insulation & Multifunction Tester

Electrical / Installations / Maintenance / Telecoms



### Features

- Microprocessor-controlled.
- Automatic voltmeter AC/DC at Start/Reset.
- Auto range
- Auto off.
- Battery test.
- Battery test at switch ON/Reset.
- Safety voltmeter before each test.
- Auto discharge on all test and all ranges.
- Leads Auto-Null key.
- Test Auto-Stop.
- Smart hold & stop on voltmeter ac/dc.
- Ener-Save feature to extend battery life.
- Continuity short circuit current > 220mA.
- Continuity open circuit voltage of 5Vdc.
- Nominal voltage @ 1mA on all insulation ranges.
- Accept 8 rechargeable batteries or Alkaline of normal.
- BS 16 edition.



### Special Functions

#### • DAR (Dielectric Absorption Ratio)

The Dielectric Absorption Ratio is the ratio of the insulation resistance measured at 1 minute divided by the insulation resistance measured at 30 seconds. Thirty seconds after starting a test (with Ener-Save™ disabled), the tester will beep, indicating that the resistance value measured at 30 seconds has been saved. One minute after starting a test, the tester will beep again, indicating that the DAR result has been computed.

The display format then changes to display the DAR result.

#### • PI (Polarization Index)

The Polarization Index is the ratio of the insulation resistance measured at 10 minutes divided by the insulation resistance measured at 1 minute. One minute after starting a test, the resistance value is saved and the DAR is displayed.

The test then continues, and after 10 minutes (with Ener-Save™ disabled), the tester will beep again, indicating that the PI result has been computed. The display format changes to display the PI result. The tester will AutoStop at 10 minutes.

#### • Voltmeter

Conventional insulation testers are highly susceptible to damage when testing insulation resistance while voltage is present (whether AC or DC) on the measured object. To safely prevent damage, this new line of testers have the unique ability to sense voltage on a measured object. If any voltage is sensed, the tester will automatically switch to voltage detection mode and display the voltage finding on the LCD screen.

This allows the user to prevent damage caused by attempting to measure insulation resistance while voltage is present.

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## Insulation & Multifunction Tester

### Accessories

Instruction manual  
 Test leads  
 Shoulder belt  
 Soft pouch  
 Batteries

AL-24-5



AL-21C2-4



CAC-1151



BET-1800



### Specifications

#### Insulation Resistance

Test voltage	50V / 100V / 125V / 250V / 500V / 1000V
Measuring ranges	0.1M~400MΩ / 0.1M~800MΩ / 0.1M~1GΩ / 0.2M~2GΩ / 0.2M~4GΩ / 0.2M~8GΩ
Continuity Range	0.01Ω~1999Ω
Accuracy	0.1MΩ~4GΩ : ±3%rdg 4GΩ~8GΩ : ±5%rdg.

#### Voltmeter (Autoranging)

Range Accuracy & Resolution	0 ~ 700Vac ±1.5% F.S. ±1V 0 ~ 950Vdc ±1.5% F.S. ±1V
Auto-Hold	√

#### Continuity Short Circuit Current > 220mA

Range / Accuracy	0.01 ~ 100Ω ±1%rdg 100 ~ 300Ω ±1.5%rdg 300 ~ 1999Ω ±2%rdg
Auto-Null	Up to 5Ω
Buzzer Threshold Value	Up to 3Ω

#### Metal Oxide Varistor (MOVs) & Gas Arrester (GAS) Voltage Result @ 1mA

Test Voltage / Accuracy	5 ~ 1020V ±3%rdg±2dgt
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#### General

Battery load current	Approx. 300mA
L.C.D type	Large Type 2 × 16 Characters
Auto-off Approx.	5 minutes
Fuse	Fast HBC 500mA 600V (5 × 20mm)
Operating temperature	0°C to 40°C not in full sun
Storage temperature	-10°C to 50°C
Dimensions	175(L) × 85(W) × 75(D)mm
Weight	Approx. 655g (battery included)
Power source	1.5V (AA) × 8 Alkaline batteries
Auto discharge on all test and all ranges	√
Safety standard	EN 61010-1 CAT III 600V, EN 61326-1