



Model 1154 TMF

Insulation & Multi-function Tester(LCD)

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 FEATURES

•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..



Accessories

Instruction manual
Test leads
Shoulder belt
Soft pouch
Batteries



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SPECIFICATIONS

Insulation

Test voltage	1000V	500V	250V	125V	100V	50V
Insulation Resistance	0.2MΩ ~ 8GΩ	0.2MΩ ~ 4GΩ	0.2MΩ ~ 2GΩ	0.1M~1GΩ	0.1M~800MΩ	0.1M~400MΩ

Continuity

Range 0.01Ω~1999Ω

Voltmeter

AC V	0-700V
DC V	0-950V
PI Function	√
DAR Function	√
Metal Oxide Varistor	√
Gas Arrester Voltage	√

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

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

Continuity Short Circuit Current > 220mA

Range	Accuracy & Resolution
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	

Voltmeter (Autoranging)

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

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 (battery included)	Approx. 655g
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

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