



# Model 1155 TMF-M

## Insulation & Multifunction Tester (OLED Display)

**1155 TMF-M Insulation & Multifunction Tester (OLED Display)**  
**Electrical / Installations / Telecoms / Maintenance / Analysis**



CE

### Features

- High Contrast OLED display.
- Designed for viewing in the dark, for mining industry.
- Auto-range microprocessor-controlled.
- Automatic voltmeter AC/DC at Start/Reset.
- Battery test at switch ON/Reset.
- Safety voltmeter before each test.
- Auto-discharge on all tests and all ranges.
- Leads auto-null key.
- Test auto-stop.
- Smart hold and stop on voltmeter AC/DC.
- Ener-Save.
- Continuity short circuit >220mA.
- Continuity open circuit voltage of 5Vdc.
- Nominal voltage @ 1mA on all insulation ranges.
- Polarization index (PI).
- Dielectric Absorption Ratio (DAR).
- 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

When testing insulation resistance while there is a presence of voltage (whether ACV or DCV) on the measured object, conventional insulation testers are highly susceptible to damage. With this new line of insulation testers, it has the ability to switch to voltage detection mode without damaging the once it detects the presence of voltage. It will also display the voltage finding on the OLED display screen. With this new and unique function, it will allow the user to safely rule out the possibility of any presence of voltage on the measured object prior to measuring its insulation.

#### • MOV and Gas Arrester Testing

Most equipments and electrical installations are protected by MOVs and Gas arresters. They can test these devices to establish if the devices are still operating correctly or not. Energy conservation is featured on all these new Advanced Products.

**Hoyt Electrical Instrument Works, Inc.**

23 Meter Street  
Penacook, NH 03303

Phone: (800) 258-3652  
Fax: (603) 753-9592  
Email: sales@hoytmeter.com

[www.hoytmeter.com](http://www.hoytmeter.com)

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### Accessories

Instruction manual  
 Test leads  
 Shoulder belt  
 Soft pouch  
 Batteries

### Specifications

#### Insulation

Test voltage	1000V	0.2MΩ ~ 8GΩ
/ Insulation Resistance:	500V	0.2MΩ ~ 4GΩ
	250V	0.2MΩ ~ 2GΩ
	125V	0.1MΩ ~ 1GΩ
	100V	0.1MΩ ~ 800MΩ
	50V	0.1MΩ ~ 400MΩ
Accuracy	0.1MΩ~4GΩ : ±3%rdg 4GΩ~8GΩ : ±5%rdg	
PI Function	√	
DAR Function	√	

#### 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	

#### Voltmeter (Autoranging)

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

#### Metal Oxide Varistor & Gas Arrester Voltage Result @ 1mA

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

Battery load current	About 300mA
OLED 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	Alkaline 1.5V (AA) × 8
Auto discharge	On all test and all ranges
Safety standard:	IEC / EN 61010-1 CAT III 600V, EN 61326-1

AL-24-5



AL-21C2-4



CAC-1151



BET-1800

