



The Faultmaster 111 is a cost effective universal fault locator used to locate all types of faults in telecom cables.

This unit functions in two switchable modes

1. TDR (Time Domain Reflectometer)
2. LIFL (Potential Distribution Method)

The back-lit 128 X 64 graphical display and soft touch membrane keypad facilitates the user with greater readability and interpretation even in difficult conditions.

In TDR mode the online distance indication at the bottom of the graphic display is obtained through calibrated cursors CUR1 and CUR2. The fast/ slow mode and the zoom curve allows the user to achieve the best results. Hi-End digital filters (1 to 9 levels) are incorporated through software for a better view of transmitted and reflected signals even in typical fault conditions.

In LIFL mode, the digital readout of fault data i.e the distance to fault and distance to strap (a loop at the far end) will be clearly indicated on the display. The unique error correction and detection method and auto gauge correction helps locate faults accurately, even with frequently changing data. the Faultmaster works on all types of cables and gauges.

Complete fault particulars like % of distance to fault, limb resistance, fault resistance, distance to fault and total length of the pair under test are displayed. This helps greatly increase accuracy.

LOCATES FOLLOWING FAULTS

TDR Mode: • Short • Open • Crosses • Bridge • Taps • Load Coils • Ground • Splits

PDM Mode: • Low-insulation (0 To 2 M Ohms) • Contact • Single limb • Earth • Foreign potential (0 To ± 100 Volts DC)
• Construction defects

FEATURES

- The Product is a combination of TDR and PDM principles
- Identifies and locates all types of faults in telecom cables
- Locates faults in all types/gauges of cable
- Single key operation
- Unit automatically switches off after 10 min. when no key is pressed
- For amplification of weak signals, there are 3 gain selections

SPECIFICATIONS

Fault Test & Pulse Width Ranges in TDR Mode:

0-50 metres	.025 micro second
0-100 metres	.050 micro second
0-300 metres	0.1 micro second
0-500 metres	0.2 micro second
0-1000 metres	0.5 micro second
0-3000 metres	0.5 micro second
0-5000 metres	1.0 micro second

FAULT MEASUREMENT

TDR MODE:

Measuring range	:	0 to 5 Kms.
Accuracy	:	$\pm 0.5\%$ of measuring range
Resolution	:	1% of measuring range
Cable Propagation Constant	:	Number key pad provided to select the cable constant from 00.0 to 99.9%
Dynamic response	:	66 dB
Amplification	:	Adjusted automatically to the measuring range
Measuring Rate	:	1 to 10 seconds as per measuring range
Sensitivity	:	Reflected signal of 1mv P-P.
Pulse Voltage	:	30 Volts (P-P)

LIFL MODE:

Measuring range	:	0 to 20 Kms.
Operating Temp.	:	-10°C to +55°C
Display	:	128 X 64 Pixel Liquid Crystal Graphical with back-lit display.
Power	:	In-built 12 V 7Ah Ni-Cd rechargeable battery
Electro Magnetic Compatibility (EMC)	:	CISPR-11, IEC-1000-4-2, IEC-1000-4-4, IEC-1000-4-5, IEC-801-3
Timer	:	Built-in. Switches off automatically after 10 Mins. to save power when no key is pressed
Enclosure	:	Textured Aluminium
Dimension	:	250 (L) X 230 (W) X 90 (H) in mm. 9.8" (L) X 9.1" (W) X 3.6" (H)
Weight	:	5 Kgs. / 11 lbs.