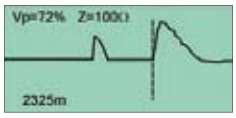
TDR Microflex

TDR and tone generator for cable fault location



Graphical display of cable faults with digital indication of distance

Benefits:

- **Low cost full specification professional graphical TDR**
- **Rugged palm-top design weighs less than 350 g (12 oz)**
- **Suitable for testing power and communication cables**

Description

The TDR Microflex is a professional Time Domain Reflectometer and Audio Frequency Generator designed to detect and locate faults on power cables and copper communication cables up to a distance of 3500m (11,500ft). Advanced signal processing techniques enable the TDR Microflex to find opens, short circuits, splices, taps, water ingress and other more elusive impedance mismatches. A built-in oscillator also provides an audio frequency tone for pair tracing and identification. Selectable cable impedance matching, along with variable velocity factor, enable the TDR Microflex to be used to test power and communication cables, including twisted pair and coaxial, with graphical results and fault distances displayed on a backlit 64 x 128 pixel LCD.

The TDR/Tone-Generator is housed in a tough, rugged ABS plastic moulding, water and dust proof and supplied complete with test leads and a protective tool-belt holster. The TDR Microflex is designed and manufactured to international standards for quality, safety and reliability.

Features

- Low cost full specification professional graphical TDR
- Rugged palm-top design weighs less than 350 g (12 oz)
- 5 Measurement Ranges up to 3500m (11.500 ft)
- 50, 75 & 100 ohm selectable cable impedance
- Built in audio frequency generator for pair tracing and identification
- Suitable for testing power and communication cables
- Water and dust proof to IP54
- Complete with tool-belt holster and test leads

Technical Data

Ranges	220, 440, 870, 1750 and 3500 m 720, 1440, 2850, 5740 and 11500 ft
Range Selection	Automatic range control
Resolution	Approximately 1% of range
Accuracy	1% of measurement range *
Velocity Factor	Adjustable from 1% to 99% Adjustable from 2,5 to 148,5 m/µs
Output Pulse	5 V_{p-p} into open circuit
Output Impedance	Selectable 50, 75 and 100 Ω
Output Pulse Width	25 ns min. 1.6 µs max.
Scan Rate	6.7 scans per second
Tone Generator	Oscillating 810 - 1110 Hz
Auto Power Down	3 minutes
Power Supply	4 x AA cells
Backlit Display	64 x 128 pixel
Voltage Withstand Protection	250 V AC
Sensitivity	min. 3 pixel return at 2 km (6 kft)
Operating Temperature	0 °C … +40 °C
Storage Temperature	-20 °C … +70 °C
Safety	IEC61010-1; EN 60950
EMC	BS/EN 61326-1
Water / Dust Proof	IP54
Dimensions	165 x 90 x 37 mm
Weight	350 g (12 oz)

* Measurement accuracy of +/-1% assumes the instrument setting for velocity of propagation (Vp) of the cable under test to be accurately set, homogeneity of the Vp along the cable length, and accurate cursor positioning.


Complete with toolbelt holster and croc clip adaptor

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