

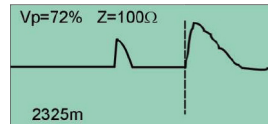


## TDR Miniflex

### TDR and Tone Generator for Cable Fault Location

#### Benefits:

- ▶ 11 measuring ranges from 7 m to 6 km
- ▶ 25, 50, 75 & 100 Ohm selectable impedance matching
- ▶



Graphical display of cable faults with digital indication of distance

#### Description

The TDR Miniflex 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 6 km (19,000 ft).

Advanced signal processing techniques enable the TDR Miniflex 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 Miniflex 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 Miniflex is designed and manufactured to international standards for quality, safety and reliability.

#### Advantages in a glance

- ▶ Low cost full specification professional graphical TDR
- ▶ 11 measuring ranges from 7 m to 6 km with excellent results even in the near range within 7 m
- ▶ 25, 50, 75 & 100 Ohm selectable impedance matching
- ▶ Built-in audio frequency generator for pair tracing and identification
- ▶ Suitable for testing power and communication cables
- ▶ Water and dust proof to IP54
- ▶ Rugged palm-top design weighs less than 350 g (12 oz)



Complete with tool-belt holster and test leads

#### Technical data

Ranges	7, 15, 30, 60, 120, 250, 500 m 1, 2, 3, 6 km (23, 49, 98, 197, 394, 820, 1640, 3280, 6560, 9850, 19000 ft)
Range selection	manual
Resolution	approx. 1% of range
Accuracy	1% of range *
Velocity factor	1% ... 99% 2.5 ... 148,5 m/μs
Output pulse	5 V <sub>p-p</sub> (open circuit)
Output impedance	adjustable 25, 50, 75 and 100 Ω
Output pulse width	3 ns ... 3 ms
Scan rate	Single or continuous measurement (2 measurements per second except in 3 and 6 km-range)
Tone generator	810 ... 1110 Hz
Auto power down	1, 2, 3, 5 min. or inactive
Power supply	4 x AA batteries
Display	64 x 128 Pixel LCD, backlit
Voltage withstand	250 V AC
Sensitivity	min. 3 pixel return at 4 km (12 kft)
Operating temperature	-10 °C ... +50 °C
Storage temperature	-20 °C ... +70 °C
Safety	IEC61010-1; EN 60950
EMC	BS/EN 61326-1
Water / dust protection	IP54
Dimensions	165 x 90 x 37 mm
Weight	350 g

\* 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.

#### Scope of delivery

- ▶ TDR Miniflex
- ▶ Test leads
- ▶ Tool-belt holster
- ▶ Manual