Megger.

TDR1000/3 Handheld TDR



- Simple operation
- AUTO set up for instant use
- Ultra fast pulse for near end fault identification
- Trace HOLD feature with live trace overlay to allow comparison between cables
- IP54 rating offers real life working
- Designed for use on all metallic cable pairs

DESCRIPTION

The TDR1000/3 is a hand held, compact time domain reflectometer for locating faults on metallic cables. It has a minimum resolution of 0.1 m/0.3 ft and a 5 km/15 kft maximum range depending on velocity factor selected and cable type.

Four output impedances are available (25, 50, 75, and 100 Ω) and a velocity factor between 0.2 and 0.99 will meet any cable test requirements.

The TDR1000 has a simple selection option which together with a 4 way control switch offers an intuitive operation for the user.

FEATURES AND BENEFITS

- An AUTO selection option ensures that the most effective parameters are selected depending on the range required, aiding rapid diagnosis of the TDR trace. Dual cursors allow complete flexibility, giving the operator full control and instant indication of distance between two points.
- A trace HOLD feature also allows comparison between conditions, something not seen on most other handheld TDRs, and a live trace overlay feature adds the ability to compare two traces in real time. Extra high resolution together with whitelight backlight and grey scale tones give the graphical display a vibrancy, aiding the user in identifying key events on the trace.
- Backlit graphics monochrome LCD (256 x 128)
- Adjustable display contrast
- Resolution to 0.1 m
- For use on Telecom TNV-3 circuit, or 150 V CAT IV power circuits
- Power blocking filter not required
- Environmental protection to IP54
- Auto selected output impedance (between 25, 50, 75 and 100 Ω)
- 2 ns pulse for near end fault location
- AUTO option selecting gain and pulse for each range
- Display distance in metres or feet
- Uses five AA (LR6) primary cells



SPECIFICATIONS

Note	Except where otherwise stated, this specification applies at an ambient temperature of 20 °C
Range	10 m, 25 m, 100 m, 250 m, 1000 m, 2500 m, 5000 m (30 ft, 75 ft, 300 ft, 750 ft, 3000 ft, 7500 ft, 15000 ft)
Accuracy	\pm 1% of range \pm pixel at 0.67 VF [Note- The measurement accuracy is for the indicated cursor position only and is conditional on the velocity factor being correct.]
Resolution	1% of range
Input protection	This instrument complies with IEC61010- 1 for connection to live systems up to 150 V CAT IV when used with the optional fused test lead set.
Output pulse	5 volts peak to peak into open circuit. Pulse widths determined by range and cable
Gain	Set for each range with three user selectable steps (in Manual operating mode)
Velocity factor	Variable from 0.2 to 0.99 in steps of 0.01
TX null	Automatic
Power down	Automatic after 5 minutes with no key press
Backlight	Stays on for 1 minute with no key press
Battery	Five LR6 (AA) type batteries, Manganese alkali or nickel metal-hydride cells
Battery life	Up to 14 hours (Typical)
Input protection	This instrument complies with IEC61010- 1 for connection to live systems up to 150 V CAT IV when used with the optional fused test lead set.
Dimensions	230 x 115 x 48 mm (9.0 x 4.5 x 2.0 inches)
Weight	0.6 kg (1.32 lbs)
Case	ABS
Connectors	Two 4 mm-safety terminals
Test lead	(TDR1000/3P): 0.5 metres long fitted with 500 mA FF HBC 1 kV 50 kA fuse
Display	256 x 128 pixel Graphics LCD
Operating temperature range and humidity	-15 °C to +50 °C (5 °F to 122 °F)

Storage temperature -20 °C to 70 °C (-4 °F to 158 °F) range and humidity Safety When using the optional fused test lead set this instrument complies with IEC61010-1 for connection to live systems with less than 300 V between the terminals and up to 150 V CAT IV to earth

EMC

Complies with Electromagnetic Compatibility Specifications (Light industrial) BS EN 61326-1, with a minimum performance of 'B' for all immunity tests

ORDERING INFORMATION		
Description	Order Code	
Included Accessories		
Time Domain Reflectometer	TDR1000-3	
Hard case	5410-420	
Miniature clip test lead set	6231-652	
User guide CD	2002-178	
Rubber boot with stand	6231-802	
Optional accessories		
Fused test lead set	1002-015	
Pouch - test and carry case	2001-322	
BNC adaptor	25965-154	

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OTHER TECHNICAL SALES OFFICES Valley Forge USA, College Station USA, Sydney AUSTRALIA, Danderyd SWEDEN, Ontario CANADA, Trappes FRANCE, Oberursel GERMANY, Aargau SWITZERLAND, Kingdom of BAHRAIN, Mumbai INDIA, Johannesburg SOUTH AFRICA, Chonburi THAILAND

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