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TDR1000/3 Handheld TDR



- Simple operation.
- AUTO set up for instant use.
- Ultra fast pulse for near end fault identification.
- Trace HOLD feature 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

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. Extra high resolution together with white-light 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 150V CAT IV power circuits

- Power blocking filter not required
- Environmental protection to IP54
- \blacksquare Auto selected output impedance (between 25, 50, 75 and 100 $\Omega)$
- 2ns 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

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| SPECIFICATIONS | | Case Dimensions: | 230 mm (9 in) x 115 mm (4.5 inches) |
|--|--|---|--|
| Except where otherwise stated, this specification applies at an ambient temperature of 20°C. | | Instrument weight: | x 48 mm (2 inches) 0.6 kg (1.32 lbs) |
| | | instrument weight: | 0.0 kg (1.52 lbs) |
| <mark>General</mark> Ranges | 10 m, 25 m, 100 m, 250 m, 1000 m, 2500 m, | Case material: | ABS |
| | 5000 m (30 ft, 75 ft, 300 ft, 750 ft, 3000 ft, 7500 ft, 15000 ft) | Connectors: | Two 4 mm-safety terminals |
| Accuracy: | ±1% of range ± pixel at 0.67 VF [Note- The measurement accuracy is for the indicated cursor position only and is conditional | Test Leads (TDR1000/3): | 2 metres long consisting of 2 x 4 mm shrouded connector to miniature crocodile clips |
| | on the velocity factor being correct.] | Display: | 256 x 128 pixel Graphics LCD |
| Resolution: | 1% of range | Environmental | |
| Input Protection: | This instrument complies with IEC61010-1 for | Operating temperature | 15 °C to +50 °C (5 °F to 122 °F) |
| | connection to live systems up to 150 V CAT IV when used with the optional fused test lead set. | Storage Temperature: | -20 °C to 70 °C (-4 °F to 158 °F |
| Output pulse: | 5 volts peak to peak into open circuit. Pulse widths determined by range and cable | 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 | |
| Gain: | Set for each range with three user selectable steps (in Manual operating mode) | EMC: Complies with Electromagnetic Compatibility Specifications (Light industrial) BS EN 61326-1, with a minimum performance of 'B' for all immunity tests | |
| 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 | | |
| Batteries: | Five LR6 (AA) type batteries, Manganese alkali or nickel metal-hydride cells | | |
| Battery Life: | Up to 14 hours (Typical) | | |
| Mechanical: | The instrument is designed for use indoors or outdoors and is rated to IP54. | | |

ORDERING INFORMATION

| ltem (Qty) | Cat. No. | |
|------------------------------|-----------|--|
| Included accessories | | |
| Time Domain Reflectometer | TDR1000/3 | |
| Included accessories | | |
| Hard Carry Case | 5410-420 | |
| Miniature Clip Test Lead Set | 6231-652 | |
| User Guide CD | 2002-178 | |
| Optional accessories | | |
| Fused Test Lead Set | 1001-717 | |
| | | |

CERTIFICATION ISO Registered to ISO 9001:2008 Cert. no. Q 09250 Registered to ISO 14001-2004 Cert. no. EMS 61597

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