



MEGGER® TDR 2000 Power

- 50m to 16km Range
- Balanced Dual input/outputs.
- 15 internal memories
- “Tx Null”
- Key sensitive help screens
- Weatherproof to IP 54
- Meets EN 61010 Part 1
- 3-year manufacturers warranty

General Purpose Cable Fault Locator

DESCRIPTION

The **MEGGER® TDR 2000** is an advanced instrument capable of accurately locating and identifying a wide range of cable faults in metallic cables. It offers outstanding features normally associated with larger, more expensive TDR's

The **TDR 2000** has been ergonomically designed for ease of use, and true universal application.

Dual inputs and large graphic display allow a wide range of tests, including comparison between individual cables, pairs and stored results. This capability gives the **TDR 2000** a true universal and general purpose application on various cable networks and systems

The instrument having 15 memories allows previous tests and test results to be recalled and displayed. The supplied “**TraceMaster**” software allows transfer of the waveform data to a computer for further analysis and storage for future reference

The **TDR 2000** is supplied complete with a set-up disc allowing the user to change the operating language of the instrument. This gives the instrument a true universal application.

“**TX Null**” Transmit pulse Nulling – Eliminates the “**Dead Zone**” i.e. the beginning of the displayed trace, which can be obscured by the outgoing pulse.

The user adjustable “**Tx Null**” eliminates this swamping of the trace by the outgoing pulse, enabling even close in faults to be easily identified.

Real-time differential measurements identify the difference between a good cable and a bad cable in real time. This is an ideal test for locating intermittent faults.

Adjustable Cable Impedance closely matches the output of the TDR to the cable under test.

This ensures the full energy of the output pulse is applied to the

cable under test, resulting in greater fault distances to be measured. Propagation velocity is similarly adjusted to match the cable under test, ensuring accurate distance.

Adjustable gain control enables a wide range of faults to be detected over the entire length of the cable.

The **TDR 2000** meets EN 61010 part 1 and is safe to use on live systems rated at 300V Installation Category II, (excluding distribution panels) and up to Category III 150V, without the need for a blocking filter.

With the addition of a set of HRC (High Rupture Capacity) fused leads the instrument is safe for use on live systems rated at 300V Category III.

This means that this instrument can be safely used on systems up to 300V, including at distribution panels, **without the need for a separate blocking filter.**

Megger® TDR 2000 General Purpose Cable Fault Locator – Specification

Ranges		50m, 100m, 200m, 400m, 1km, 2km, 4km, 8km, 16km,
Accuracy		±1% of range ± pixel @ 0.67VF
Resolution		0.1m up to 200m ; 0.2m up to 400m 0.1% of range over 400m
Propagation Velocity		Variable Velocity Factor from 0.30 to 0.99 in steps of 0.001
Gain		Set for each range with four user selectable steps
Pulse Characteristics	Width Amplitude Output Impedance	20ns to 2i s according to range selected 14V peak to peak into open circuit Variable between up to 120Ohm
“Tx Null” Balance		0 to 120Ohm
Output	Sockets pc connection	Two pairs 4mm safety terminals. 9 way D-type serial connector.
Display		Graphics Liquid crystal 256 x 128 pixel with backlight
Power		8 x LR6 (AA) Manganese-alkali, nickel-cadmium or nickel-metal-hydride cells Nominal Voltage; 12V for Alkali of 9.6V for NiCad or NiMH Low Battery Warning
Power Down		Automatic after 5 – 10 - 15 minutes (user selectable)
Environment		
Temperature	Operational	-15°C to + 50°C (-5°F to 122°F)
	Storage	-20°C to + 70°C (-4°F to 158°F)
Humidity	Operational	95% at + 40°C
Safety		This instrument meets the safety requirements of IEC 610010 part 1 to 150V Cat III. If it is to be used in situation where hazardous live voltages may be encountered then an additional filter must be used.
EMC		Complies with Electromagnetic Compatibility Specifications (light industrial) BS/EN5008-1-1992, BS/EN50082-1-1992
Ingress Protection		IP54 Weatherproof enclosure ensures operation in inclement conditions.
Size		250mm x 200mm x 110mm
Weight		1.5kgs (3.3lbs)

These instruments are manufactured in the United Kingdom. The Company reserves the right to change the specification or design without prior notice AVO and MEGGER are Registered Trade Marks of AVO INTERNATIONAL LIMITED

ORDERING INFORMATION

TDR 2000P

6410 - 985

Included Accessories

Test & Carry Pouch 6420 – 114
Carry strap for Pouch 6220 – 611
Test Lead Set 6231 – 654
User Guide 6172 - 444

Optional Accessories

Mains Blocking Filter 6220 - 669

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