

TX2003

TDR / Toner – Cable Fault Locator



- 6 km (19,000ft)
- 0.5mtr dead Zone
- Selectable Cable Impedance
- Warble Tone Generator
- Rapid Fault Location
- Large 128x64 LCD with Backlight
- Scratch Resistant Display
- Environmental Protection IP54
- CE Approved
- 1 year Manufacturers Warranty
- 60 Hours Battery Life
- Soft bag & Test Leads
- Easy to Use

Product Description

The TX2003, 6km(19,000ft) range Time Domain Reflectometer weighing only 350 grams (12oz) fits neatly into the hand. With its 128x64 pixel backlight, scratch resistant display, provides accurate and easy to read fault locations on metallic cables. With a 3 nano second pulse, rise time “near end” cable faults can be clearly identified without the need to suppress the transmitted pulse. Housed in a rugged IP54 rated ABS enclosure, the TX2003 is suitable for outside use.

Using pre determined gain and pulse widths for each range setting and with only 4 control buttons, all major operating and setting parameters can be easily accessed. A 6km cable run can be scanned in seconds, allowing the operator a view of the cable run, yet arriving quickly to the fault. By using the TX2003 scan lock facility, the cable can be continually scanned or the trace held for closer analysis. To enable the TX2003 to test all metallic cables, four user selectable output impedances are provided 25, 50, 75 & 100 ohms.

Faulty cables may be traced using the TX2003 warble tone feature, an oscillating tone is injected into the suspect power or transmission line and by using a commercially available tone tracing probe, the suspect line can be identified.

“Measuring to new lengths”

Specifications

Ranges meters	7, 15, 30, 60, 120, 250, 500, 1km, 2km, 3km, 6km
feet	23, 49, 98, 197, 394, 820, 1640, 3280, 6560, 9850, 19000
Range Selection	Manual range control
Accuracy	1% of selected range*
Resolution	Approx 1% of range
Sensitivity	Min 3 pixel return at 4km on 0.6mm , PE , TP
Velocity Factor	Adjustable from 1% to 99%
Output Pulse	5 volts peak to peak. Into open circuit
Output Impedance	Selectable 25, 50, 75 & 100 ohms
Output pulse Width	3 ns to 3 us, Automatic with range
Scan Rate	2 scans / second or scan held (not on 3km/6km range)
Tone Generator	810 - 1100Hz
Battery Life	60 hours continuous scanning
Power Supply	6 volts 4 x 1.5 AA Alkaline cells
Power Down	Selectable 1, 2, 3, 5 minutes or disabled
Back Lit Display	128 x 64 pixel
Voltage Protection	250 volts AC
Operating Temp	-10° / 50°C
Storage Temp	-20° / 70°C
Dimensions	165 x 90 x 37 (6.5 x 3.5 x 1.5 ins)
Weight	350 gms (12oz)
Safety	IEC 61010-1 EN 60950
EMC	BS/EN 61326-1
Water/Dust Proof	IP54

* Measurement accuracy of $\pm 1\%$ 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.

Design • Innovation • Technology



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