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SPECIFICATION

Except where otherwise stated, this specification applies at an ambient temperature of 20°C.

General

Ranges: 10 m, 30 m, 100 m, 300 m, 1000 m, 3000 m
(30 ft, 100 ft, 300 ft, 1000 ft, 3000 ft, 10000 ft)

Accuracy: ±1% of range ± pixel at 0.67VF

[**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 300 V CAT III. Fused leads must be used if the voltage between the terminals exceeds 300 V.

Output pulse: 5 volts peak to peak into open circuit. Pulse widths determined by range and cable

Impedance:	25 Ω	50 Ω	75 Ω	100 Ω
10m	7ns	7ns	7ns	7ns
30m	20ns	20ns	20ns	20ns
100m	100ns	60ns	100ns	100ns
300m	300ns	120ns	170ns	300ns
1000m	1000ns	520ns	680ns	1000ns
3000m	3000ns	2020ns	2340ns	3000ns

Gain: Set for each range with four user selectable steps

Velocity Factor: Variable from 0.2 to 0.99 in steps of 0.01

TX Null: 0 Ω to 120 Ω

Refresh Rate: Selectable from the menu. Once per second or three times a second

Power Down: Automatic after 5 minutes with no key press

Backlight: Stays on for 1 minute when activated

Batteries: Six LR6 (AA) type batteries, Manganese-alkali or nickel-cadmium or nickel-metal-hydride cells

Safety: This instrument complies with IEC61010-1 for connection to live systems up to 300 V CAT III. Fused leads must be used if the voltage between the terminals exceeds 300 V

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

Mechanical: The instrument is designed for use indoors or outdoors and is rated to IP54.

Case Dimensions: 230 mm (9 in) x 115 mm (4.5 inches) x 48 mm (2 inches)

Instrument weight: 0.6kg (1.32lbs)

Case material: ABS

Connectors: Two 4mm-safety terminals

Test Leads: 2 metres long consisting of 2 x 4mm shrouded connector to miniature crocodile clips

Display: 128 x 64 pixel Graphics LCD

Environmental

Operational Temperature: -15°C to +50°C (5°F to 122°F)

Storage Temperature: -20°C to 70°C (-4°F to 158°F)

ORDERING INFORMATION

Item (Qty)	Order No.
Time Domain Reflectometer	TDR1000/2
Included Accessories	
Test & Carry case with strap	6420-125
Miniature Clip Test Lead Set	6231-652
User Guide	6172-443
Optional Accessories	
Fused Test Lead Set	6111-218

UK
Archcliffe Road Dover
CT17 9EN England
T +44 (0) 1304 502101
F +44 (0) 1304 207342

UNITED STATES
4271 Bronze Way
Dallas TX 75237-1019 USA
T 800 723 2861 (USA only)
T +1 214 333 3201
F +1 214 331 7399

OTHER TECHNICAL SALES OFFICES
Norristown USA, Toronto CANADA,
Mumbai INDIA, Trappes FRANCE,
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