



Comparison of technical characteristics of TDRs
ERSTED TDR RI-303BM vs TelScout™ TS90

Model/Parameter	ERSTED TDR RI-303BM	CS 90 Telecom Cable TDR
Type	1-channel TDR	1-channel TDR
View		
TDR inputs	1 channel	1 channel
Ranges:	2 m ... 4.8 km	0 – 15 km
Accuracy:	0.4%	±0.01%, ± 300
Propagation velocity: PVF: V/2:	Variable 0.330 to 0.999 50 to 150 m/μs	Fully adjustable from 0.300 to 1.000
Resolution:	0.125 m	0.4% of selected range
Gain:	0-80 dB	0 to 63 dB
Pulse characteristics: Amplitude:	is not less than 9 V for the matched load (not less than 18 V on open circuit)	≤6 V into 105Ω
Width:	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10000 ns, user selectable	5 ns to 2,500 ns (automatic).
Output Impedance:	from 30 Ω to 400 Ω , user selectable stepless adjustment	105Ω nominal ?
Noise Reduction Filter:	Digital Averaging 1...128	
Output:		
Sockets:	2 x BNC (Female)	?
Protection:	Via external block: AC: up to 380 V rms, 0-60 Hz DC: +/-1000 V	±200 V, DC + peak AC, to a maximum of 440 Hz
Display: Type:	Monochrome 3.8 " (320x240pixels)	5.25 inch, high-contrast, high-resolution, backlit LCD, 520 x 200 pixels
Cursor:	One active cursor with Zero point adjustment	Two cursors
Memory:	Waveform Library up to 100 waveforms	?
Modes:	Direct, 1 channel Internal Cable VF Library No PC data exchange via Bluetooth	Direct, 1 channel Two Pair Test Capability One-Step Setup Automatic Instrument Control Mode Splash and Drip Proof Single-Button Zoom Function Pair Comparison Mode
Interface language	English/Russian/Spain	English
Interface with PC	via Bluetooth	?
PC software for archiving	Yes, in the standard delivery	?

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waveforms		
Power	Internal Li-Ion battery 6000 mA*h – 10 hours operation Ext AC-DC Adapter 12 V	Battery Type: Six AA alkaline. Operating Time: Over 4.5 hours with backlight off. Battery Saver: Selectable for 5 to 30 minutes or disabled.
Environmental: Operating Temperature: Storage Humidity	-20°C ... +40°C -50°C ... +50°C. 98% at 25°C	0°C to +45°C -20°C to +60°C 95% RH, non-condensing
Safety:	TR TS 020/2011 "Electromagnetic compatibility of technical means" TR TS 004/2011 "On the safety of low-voltage equipment"	EMI EMISSIONS EN55011, Class A. EN60555-2.
Size, W x H x D:	230x130x50 mm	211 x 141 x 43 mm
Weight:	0.65 kg inc battery	1 kg
Delivery includes:	Time Domain Reflectometer RI-303BM - 1 item AC-DC 5V Adapter (battery charger) - 1 item Connecting cable 1.5 m - 1 item Strap - 1 item User Manual - 1 item CD with software (optional) - 1 item	TelScout™ Telephone Tester US, TS90 (Bed of Nails Croc Clips), TelScout™ International, TS90 (Small Croc Clips), Lead Kit International, (Small Croc Clips), Leads, (Bed of Nails Croc Clips), Rechargeable Battery Pack
Standard Warranty:	1 year	No information