
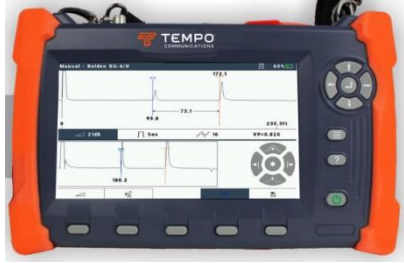


Comparison of technical characteristics of TDRs  
**ERSTED TDR RI-307M3 vs CS 90 Telecom Cable TDR**

Model/Parameter	ERSTED TDR RI-10M1	CS 90 Telecom Cable TDR
Type	1-channel TDR	1-channel TDR
View		
TDR inputs	1 channel	1 channel
Ranges:	from 0 to 50 km	0 – 3.66 km
Accuracy:	±0.04% ... 0.4%	±0.01%, ± 300
Propagation velocity: PVF: V/2:	Variable 0.330 to 0.999 50 to 149.9 m/μs	Fully adjustable from 0.250 to 1.000
Resolution:	no more than 0.5m	0.075m
Gain:	0 to 80 dB	0 to 90 dB
Pulse characteristics: Amplitude:	10 V on the matched load	>4V peak
Width:	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10000, 20000 or 50000 ns, user selectable	1, 5, 25 ns
Output Impedance:	from 25 Ω to 600 Ω , user selectable stepless adjustment	75 Ω
Noise Reduction Filter:	Digital Averaging 1...128	Digital Averaging 1...32
Output:		
Sockets:	1 x BNC (Female)	?
Protection:	Via external block: AC: up to 380 V rms, 0-60 Hz DC: +/-1000 V	DC: +/-400 V
Display: Type:	monochrome 3.8 " (320x240 pixels)	Color display, sunlight viewable 7" (800 X 480 pixels)
Cursor:	One active cursor with Zero point adjustment	Two cursors
Memory:	Waveform Library up to 100 waveforms Cables VF Library up to 200 cables	62500 traces (SD card : 8GB) 29 cables preloaded (space for up to 75 cables in total)
Modes:	TDR Internal Cable VF Library Cross-Talk detection PC data exchange via RS-232	Direct, 1 channel Internal Cable VF Library Intermittent faults detect mode PC data exchange via USB/SD
Interface language	English/Russian/Spain	English
Interface with PC	RS232-USB adapter (optional)	USB

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PC software for archiving waveforms	Yes, in the standard delivery	?
Power	Li-Ion battery 7.4 V 1.9 A*h – 8 hours operation (Auto Power-Off: 10 minutes, after last key operation)  Ext AC-DC Adapter 12 V	Rechargeable li-Ion battery 30 Wh; sufficient for >8 hr use with typical backlight  Battery management system optimizes charging and lifetime
Environmental: Operating Temperature: Storage Humidity	-20°C ... +40°C -50°C ... +50°C. 98% at 25°C	0°C to +50°C -20°C to +70°C No information
Water ingress:	IP54 – operation (open case) IP67 – transportation (closed case)	No information
Safety:	TR TS 020/2011 "Electromagnetic compatibility of technical means"  TR TS 004/2011 "On the safety of low-voltage equipment"	CE
Size, W x H x D:	230x190x110 mm	262 x 162 x 55 mm
Weight:	2 kg inc battery	0.9 kg
Delivery includes:	Cable Fault Locator TDR RI-10M1 - 1 item AC Adapter 12 V - 1 item Connecting cable 75 Ohm, 1.0 m, BNC.M - «Alligator clip» - 2 items User Manual - 1 item CD-ROM with software - 1 item Accessories bag 1 item Voltage protection unit UP-1 up to 380V (optional) - 1 item RS232-USB adapter (optional) - 1 item	Cable scout 90 TDR (basic kit) consisting of CS90 TDR (with Li-Ion battery), battery charger, carrying case, test-lead alligator clip cord, user guide
Standard Warranty:	1 year	No information