Comparison of technical characteristics of TDRs

ERSTED TDR RI-307M3 vs CS 90 Telecom Cable TDR

Model/Parameter	ERSTED TDR RI-307M3	CS 90 Telecom Cable TDR
Туре	2-channel TDR	1-channel TDR
View		TEMPO ***********************************
TDR inputs	2 channels	1 channel
Ranges:	0 - 15 m to 0 - 128 km full screen, in 12 ranges (zoom of x2, x4, 8,x1024 around cursor, depending on range)	0 – 3.66 km
Accuracy:	±0.01% 0.2%	±0.01%, ± 300
Propagation velocity: PVF: V/2:	Variable 0.330 to 0.999 50 to 150 m/µs	Fully adjustable from 0.250 to 1.000
Resolution:	0.03m in all subranges	0.075m
Gain:	0-40 dB max, selectable in 255 steps Maximum sensitivity 30 mV = full scale	0 to 90 dB
Pulse characteristics: Amplitude:	not less than 18 V @ open circuit	>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 520 Ω , user selectable stepless adjustment	75 Ω
Noise Reduction Filter: Output:	Digital Averaging 1128	Digital Averaging 132
Sockets:	2 x BNC (Female)	Ś
Protection:	Via external block: AC: up to 380 V rms, 0-60 Hz DC: +/-1000 V	DC: +/-400 V
Display: Type:	Color TFT 5.7" (640x480 pixels)	Color display, sunlight viewable 7" (800 X 480 pixels)
Cursor:	Two active cursors with individual control	Two cursors
Memory:	Waveform Library up to 1000 waveforms	62500 traces (SD card: 8GB)
	Cables VF Library up to 500 cables	29 cables preloaded (space for up to 75 cables in total)
Modes:	Direct, 2 channels L1/L2 and L1&L2	Direct, 1 channel
	Comparison (up to 5 sources signal simultaneously): L1 & L2 & M1 & M2 & M3	<u>\$</u>
	Difference (up to 5 sources simultaneously): L1 / L2 / M1 / M2 / M3	<u>\$</u>

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	T	T
	Internal Cable VF Library	Internal Cable VF Library
	Intermittent faults detect mode	Intermittent faults detect mode
	Cross Talk mode	No
	Line impedance estimation	No
	Channel independent Horizontal(Xo) and Vertical(Yo) waveforms shifting mode	No
	«Screen shot» function	No
	PC data exchange via USB-flash	PC data exchange via USB/SD
Interface language	English/Russian/Spain (selectable)	English
Interface with PC	Via external USB-Flash	USB
PC software for archiving waveforms	Yes, in the standard delivery	Ś
Power	Internal Lilon (7.2±0.7) V, 6.6 Ah – 8 hours operation (Auto Power-Off: 264 mins, after last key operation) Ext AC-DC Adapter 12 V	Rechargeable li-lon 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:	246x124x70 mm	262 x 162 x 55 mm
Weight: Delivery includes:	2.5 kg inc battery AC Adapter 12 V, Connecting cable 75 Ohm, 5.0 m, BNC.M -«Alligator clip», Connecting cable 75 Ohm, 0.1 m, BNC.M «Alligator clip» Operating Manual Accessories bag	0.9 kg Cable scout 90 TDR (basic kit) consisting of CS90 TDR (with Li-lon battery), battery charger, carrying case, test-lead alligator clip cord, user guide
Standard Warranty:	1 year	No information