



## Comparison of technical characteristics of TDRs

### ERSTED TDR RI-10M1 vs Riser Bond Model 3300

Model/Parameter	ERSTED TDR RI-10M1	Riser Bond Model 3300
Type	2-channel TDR	2-channel TDR
View		
TDR inputs	2	2
Ranges:	0...74 km @ 99% VoP 0...45 km @ 60% VoP  in 9 ranges (zoom x2...x10 around cursor, depending on range)	19.4 km @ 99% VOP. 11.8 km @ 60% VOP  Range varies with VOP. Maximum testable cable lengths varies with pulse width and cable type.
Accuracy:	± 0.5 m plus ± 0.04% ... 0.4%	± 0.15 m plus ± 0.01% of reading.
Propagation velocity:	Two user-selectable display formats:  PF(c/v): 1,00 ... 3,00 (3 digit precision) V/2: 50 ... 150 m/μs (3 digit precision)	Two user-selectable display formats:  VoP(%): 30% ... 99% (2 digit precision) V/2: 45 ... 148 m/μs (3 digit precision)
Resolution:	0.5 m	0.1 m at any VOP.
Gain:	0-80 dB max, selectable in 255 steps Maximum sensitivity 1 mV = full scale	Greater than 56 dB.
Pulse characteristics:		
Amplitude:	10 V into selected impedance	No information
Width:	10, 20, 50 ... 20000, 50000 ns, depending on range and user selectable	5, 25, 100, 1000 ns.
Output Impedance:	from 25 Ω to 600 Ω , user selectable stepless adjustment	Variable
Noise Reduction Filter:	50/60Hz, Digital Averaging 1...128	50/60Hz, 4x, 8x, 16x, 32x, 64x, 128x, Averaging, Auto
Output:		
Sockets:	2 x BNC (Female)	2 x Banana Type (Female)
Protection:	Via external block 380 V rms, 0-60 Hz (optional)	400 V (AC+DC) from DC to 400 Hz, decreasing to 10 V at 1 MHz.
Display:		
Type:	320 x 240 dot-matrix liquid crystal display with LED-backlight	320 x 240 dot-matrix liquid crystal display with electroluminescent backlighting.
Cursor:	One active cursor with zero point adjustment	Two active cursors with individual control
Memory:	240 samples per waveform: 100 waveforms Library  Cables VoP Library up to 100 cables	6144 samples per waveform: 16 SUPER-STORE waveforms.
Modes:	Direct, 2 channels L1/L2  Comparison (up to 2 sources signal simultaneously): L & M  No	Direct, 2 channels L1/L2 and L1&L2  Comparison (up to 2 sources signal simultaneously): L & M  Difference(up to 2 sources simultaneously) : L / M

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	Internal Cable VF Library  No  Cross Talk mode  PC data exchange via RS-232 port;	No information  Intermittent faults detect mode  Cross Talk mode  PC data exchange via RS-232 port;
<b>Interface language</b>	English/Russian/Spain (factory programmed)	English
<b>Interface with PC</b>	RS 232C to PC	RS 232C to printer or PC
<b>PC software for archiving waveforms</b>	Yes, in the standard delivery	No information
<b>Power</b>	Internal Lilon (7.4±0.7) V, 1.9 Ah 8 hours operation with backlight  Auto Power-Off: 10 min, after last key operation  Ext AC-DC Adapter 12 V	Internal 7.2 V NiMH Batteries 10 hours operation without backlight   External 12 VAC transformer, 1.3 A.
<b>Environmental:</b> Operating Temperature: Storage Humidity	-20 °C ... +40 °C -50°C ... +50°C 98% at 25°C	- 0° C to 50° C -20° C to 60° C 95% maximum relative, non-condensing.
<b>Water ingress:</b>	IP54 – operation (open case) IP67 – transportation (closed case)	No information
<b>Safety:</b>	TR TS 020/2011 "Electromagnetic compatibility of technical means"  TR TS 004/2011 "On the safety of low-voltage equipment"	No information
<b>Size, W x H x D:</b>	230x110x190mm	240x120x 60 mm (instrument only) 280x152x 115 mm (with nylon carrying case and accessories)
<b>Weight:</b>	2.0 kg inc battery	1.2 kg (instrument only) 2.15 kg (with nylon carrying case and accessories)
<b>Delivery includes:</b>	AC Adapter 12 V 2 x Connecting cable 75 Ohm, 1.0 m, BNC.M «Alligator clip» Operating Manual CD-ROM with software Accessories bag	Operator's manual, 12 VAC charger, nylon carrying case, telco test leads.
<b>Standard Warranty:</b>	1 year	No information