

Comparison of technical characteristics of TDRs

ERSTED TDR RI-307M3 vs Riser Bond Model 3300

| Model/Parameter | ERSTED TDR RI-307M3 | Riser Bond Model 3300 |
|-------------------------|--|---|
| Type | 2-channel TDR | 2-channel TDR |
| View |  |  |
| TDR inputs | 2 channels | 2 channel |
| Ranges: | 0...22 m to 0...190 km @ 99% VoP 0...13 m to 0...115 km @ 60% VoP in 12 ranges (zoom of x2, x4, 8,...x1024 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: | ± 0.03 m plus ± 0.01% ... 0.2% | ± 0.15 m plus ± 0.01% of reading. |
| Propagation velocity: | Three user-selectable display formats: PF(c/v): 1,000 ... 3,000 (4 digit precision) VoP(%): 33.0% ... 100.0% (4 digit precision) V/2: 50.0 ... 150.0 m/μs (4 digit precision) | Two user-selectable display formats: VoP(%): 30% ... 99% (2 digit precision) V/2: 45 ... 148 m/μs (3 digit precision) |
| Resolution: | 3 cm in all subranges | 0.1 m at any VOP. |
| Gain: | 0-40 dB max, selectable in 255 steps Maximum sensitivity 30 mV = full scale | Greater than 56 dB. |
| Pulse characteristics: | | |
| Amplitude: | 10 V into selected impedance | No information |
| Width: | 10, 20,50, 100, 200, 500, 1000, 2000, 5000, 10000, 20000 or 50000 ns, user selectable | 5, 25, 100, 1000 ns. |
| Output Impedance: | from 25 Ω to 520 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 | 400 V (AC+DC) from DC to 400 Hz, decreasing to 10 V at 1 MHz. |
| Display: | | |
| Type: | Color TFT 5.7" (640x480 pixels) | 320 x 240 dot-matrix liquid crystal display with electroluminescent backlighting. |
| Cursor: | Two active cursors with individual control | Two active cursors with individual control |
| Memory: | | |
| | 8000 samples per waveform: 1000 waveforms Library Cables VoP Library up to 1000 cables | 6144 samples per waveform: 16 SUPER-STORE waveforms. |
| Modes: | | |
| | Direct, 2 channels L1/L2 and L1&L2 Comparison (up to 6 sources signal simultaneously): L1 & L2 & M1 & M2 & M3 & M4 Difference(up to 6 sources simultaneously) : L1 / L2 / M1 / M2 / M3 / M4 Internal Cable VF Library | 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 No information |

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| | Intermittent faults detect mode Cross Talk mode Line impedance estimation PC data exchange via USB-flash; | Intermittent faults detect mode Cross Talk mode No information PC data exchange via RS-232 port; |
| Interface language | English/Russian/Spain (selectable), | English |
| Interface with PC | Via external USB-Flash | RS 232C to printer or PC |
| PC software for archiving waveforms | Yes, in the standard delivery | No information |
| Power | Internal LiIon (7.2±0.7) V, 6.6 Ah 8 hours operation with backlight Auto Power-Off: 2 ...64 mins, 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. |
| 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 60° C 95% maximum relative, non-condensing. |
| 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" | No information |
| Size, W x H x D: | 246x124x70mm | 240x120x 60 mm (instrument only) 280x152x 115 mm (with nylon carrying case and accessories) |
| Weight: | 2.5 kg inc battery | 1.2 kg (instrument only) 2.15 kg (with nylon carrying case and accessories) |
| Delivery includes: | AC Adapter 12 V, Connecting cable 75 Ohm, 5.0 m, BNC.M-«Alligator clip», Connecting cable 75 Ohm, 0.1m, BNC.M-«Alligator clip» Operating Manual CD-ROM with software Accessories bag | Operator's manual, 12 VAC charger, nylon carrying case, telco test leads. |
| Standard Warranty: | 1 year | No information |