

Comparison of technical characteristics of TDRs
ERSTED TDR RI-307M3 vs TelScout™ TS90

| Model/Parameter | ERSTED TDR RI-307M3 | TelScout™ TS90 |
|---------------------------------------|--|--|
| Type | 2-channel TDR | 1-channel TDR |
| View |  |  |
| 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 – 15 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 0.300 to 1.000 |
| Resolution: | 0.03m in all subranges | 0.4% of selected range |
| Gain: | 0-40 dB max, selectable in 255 steps Maximum sensitivity 30 mV = full scale | 0 to 63 dB |
| Pulse characteristics: Amplitude: | not less than 18 V @ open circuit | ≤6 V into 105Ω |
| Width: | 10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10000, 20000 or 50000 ns, user selectable | 5 ns to 2,500 ns (automatic). |
| Output Impedance: | from 25 Ω to 520 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: | Color TFT 5.7" (640x480 pixels) | 5.25 inch, high-contrast, high-resolution, backlit LCD, 520 x 200 pixels |
| Cursor: | Two active cursors with individual control | Two cursors |
| Memory: | Waveform Library up to 1000 waveforms Cables VF Library up to 500 cables | ? |
| Modes: | Direct, 2 channels L1/L2 and L1&L2 Comparison (up to 5 sources signal simultaneously): L1 & L2 & M1 & M2 & M3 Difference(up to 5 sources simultaneously) : L1 / L2 / M1 / M2 / M3 Internal Cable VF Library | Direct, 1 channel Two Pair Test Capability One-Step Setup Automatic Instrument Control Mode Splash and Drip Proof |

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| | | |
|---|--|---|
| | <p>Intermittent faults detect mode</p> <p>Cross Talk mode</p> <p>Line impedance estimation</p> <p>Channel independent Horizontal(X_o) and Vertical(Y_o) waveforms shifting mode</p> <p>«Screen shot» function</p> <p>PC data exchange via USB-flash</p> | <p>Single-Button Zoom Function</p> <p>Pair Comparison Mode</p> |
| Interface language | English/Russian/Spain (selectable) | English |
| Interface with PC | Via external USB-Flash | ? |
| PC software for archiving waveforms | Yes, in the standard delivery | ? |
| Power | <p>Internal Lilon (7.2±0.7) V, 6.6 Ah – 8 hours operation (Auto Power-Off: 2 ...64 mins, after last key operation)</p> <p>Ext AC-DC Adapter 12 V</p> | <p>Battery Type: Six AA alkaline. Operating Time: Over 4.5 hours with backlight off. Battery Saver: Selectable for 5 to 30 minutes or disabled.</p> |
| Environmental: Operating Temperature: Storage Humidity | <p>-20°C ... +40°C -50°C ... +50°C. 98% at 25°C</p> | <p>0°C to +45°C -20°C to +60°C 95% RH, non-condensing</p> |
| Water ingress: | <p>IP54 – operation (open case) IP67 – transportation (closed case)</p> | No information |
| Safety: | <p>TR TS 020/2011 "Electromagnetic compatibility of technical means"</p> <p>TR TS 004/2011 "On the safety of low-voltage equipment"</p> | <p>EMI EMISSIONS EN55011, Class A. EN60555-2.</p> |
| Size, W x H x D: | 246x124x70 mm | 211 x 141 x 43 mm |
| Weight: | 2.5 kg inc battery | 1 kg |
| Delivery includes: | <p>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 Accessories bag</p> | <p>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</p> |
| Standard Warranty: | 1 year | No information |