Riser Bond Model 1270A

METALLIC TIME DOMAIN REFLECTOMETER CABLE FAULT LOCATOR

FEATURES/KEY BENEFITS

- **Direct connections from both coax and twisted pair** - Superior fault location in a variety of industries and applications. The 1270A will directly test coaxial cable and twisted pair cable by using front panel connections.

- **RANGE-PLUS** - Two-button operation that allows the operator to quickly scan the cable under test while automatically stepping through a specific pulse width, vertical gain, and cable length.

- **2-Line Input** - Connect two twisted pair cables simultaneously for comparison.

- **Sub-nanosecond Pulse Width** - Pinpoint minor faults which interrupt digital services and cause signal loss, ingress, and egress.

- **Intermittent Fault Detection (IFD)** - Monitor and locate hard-to-find intermittent faults using the IFD mode.

- **Dual Independent Cursors** - Measure between any two points on the waveform.

- **SUPER-STORE Waveform Data Storage** - Helps reduce downtime in a system. Simply connect the TDR, press "store", and have the system back up and running within minutes. Analyze the waveform later.

- **WAVE-VIEW Software** - Upload waveforms to your computer. Document before accepting new plant, save money when comparing replacement versus repair cost.

- **Rugged, weatherproof construction** - Rugged, weatherproof casing helps keep the 1270A on the job, regardless of location or climate conditions.

- **Easy-to-use** - Logical, step-by-step testing for fault location and diagnosis is easy-to-use by all levels of expertise.

Radiodetection®

PRODUCT SPECIFICATIONS

Physical Dimensions:	
Width:	10.5 inches (267 mm)
Height:	9.75 inches (247.6 mm)
Depth:	5 inches (127 mm)
Weight:	6 pounds (2.7 kg)
Power:	
Battery:	Internal, rechargeable, 7.2 V Nickel metal hydride
Charging Source:	External 12 VAC transformer, 1.3 A
Operating Time:	Greater than 6 hours, continuous without backlight
Environment:	
Operating temperature:	0˚ C (+32˚ F) to +50˚ C (+122˚ F)
Typical temperature:	-15˚ C (+5˚ F) to +60˚ C (+140˚ F)
Storage temperature:	-20˚ C (-4˚ F) to +60˚ C (+140˚ F)
Humidity:	95% maximum relative humidity, non-condensing
Display:	320 x 240 dot-matrix, liquid crystal display (LCD) with cathode fluorescent (CFL) backlighting
Maximum Ranges:	63,700 feet (19,400 meters) at .990 VOP 38,600 feet (11,700 meters) at .600 VOP Range varies with VOP. Maximum testable cable length varies with pulse width and cable type.
Horizontal Resolution:	
Coax: <2,000 ft (610 m):	<.05 ft (.03 m) at .999 VOP <.02 ft (.01 m) at .300 VOP
Line 1, Line 2: <2,000 ft (610m):	<.25 ft (.08 m) at .999 VOP <.08 ft (.03 m) at .300 VOP
Any input: >2,000 ft (610 m):	1 ft (.1 m) at any VOP
Vertical Resolution:	14 bits with 170 dots displayed
Vertical Sensitivity:	Greater than 65 dB
Output Balance:	Line 1, Line 2 only; Variable
Output Connector	Front panel BNC and Banana jacks
Velocity of Propagation:	Two user-selectable display formats. VOP (%) with 3 digit precision ranging from 30.0% to 99.9%; V/2 with 4 digit precision (feet or meters per microsecond) ranging from 45.0 to 148.0 in meters mode or from 148.0 to 487.0 in feet mode.
Input Protection:	400 volts (AC + DC) from DC to 400 Hz and decreases to 10 volts at 1 MHz.
Distance Accuracy:	Accuracy will vary with cable VOP and cable type.
Coax:	± .1 ft (.03 m) plus ± - .01% of reading
Line 1, Line 2:	± .5ft (.15m) plus ± .01% of reading
Serial I/O Port:	RS-232
Output Pulses:	
Coax:	Sub-nanosecond, 2, 25, 100, 500 nanoseconds
Line 1, Line 2	2, 25, 100, 1000, 6000 nanoseconds
Auto dBRL:	2 digit auto return loss calculation at cursor setting
Auto Crosstalk	Line 1, Line 2 only 2 digit crosstalk calculation at cursor setting
Waveform Storage:	
All with full vertical resolution	32 waveforms
Automatic/Manual Noise Filter:	Multi-function/Multi-level filtering
Accessories:	
Standard:	Operator's manual, Shoulder strap, Battery charger, Battery pack, Probes and connectors, Noise filters, WAVE-VIEW for Windows software, Clip-on accessory bag.
Optional:	Strand hooks kit, 12V Cigarette lighter charger, Custom Soft-side carrying case.

Technological advances allow changes in specifications and/or components. Changes may be made without notification.

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