

# 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.



## PRODUCT SPECIFICATIONS

<b>Physical Dimensions:</b>	
Width:	10.5 inches (267 mm)
Height:	9.75 inches (247.6 mm)
Depth:	5 inches (127 mm)
Weight:	6 pounds (2.7 kg)
<b>Power:</b>	
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
<b>Environment:</b>	
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
<b>Display:</b>	320 x 240 dot-matrix, liquid crystal display (LCD) with cathode fluorescent (CFL) backlighting
<b>Maximum Ranges:</b>	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.
<b>Horizontal Resolution:</b>	
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
<b>Vertical Resolution:</b>	14 bits with 170 dots displayed
<b>Vertical Sensitivity:</b>	Greater than 65 dB
<b>Output Balance:</b>	Line 1, Line 2 only; Variable
<b>Output Connector</b>	Front panel BNC and Banana jacks
<b>Velocity of Propagation:</b>	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.
<b>Input Protection:</b>	400 volts (AC + DC) from DC to 400 Hz and decreases to 10 volts at 1 MHz.
<b>Distance Accuracy:</b>	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
<b>Output Pulses:</b>	
Coax:	Sub-nanosecond, 2, 25, 100, 500 nanoseconds
Line 1, Line 2	2, 25, 100, 1000, 6000 nanoseconds
<b>Auto dBRL:</b>	2 digit auto return loss calculation at cursor setting
<b>Auto Crosstalk</b>	Line 1, Line 2 only 2 digit crosstalk calculation at cursor setting
<b>Waveform Storage:</b>	
All with full vertical resolution	32 waveforms
<b>Automatic/Manual Noise Filter:</b>	Multi-function/Multi-level filtering
<b>Accessories:</b>	
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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