Model 1270A
Metallic Time Domain Reflectometer
Cable Fault Locator

The Model 1270A offers some key benefits and features:

◆ **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.

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

◆ **Rugged, Waterproof Packaging** - Helps to keep the 1270A on the job, regardless of location or climate condition.

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

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Riser Bond

Model 1270A
Product Specifications

Physical Dimensions:
Height:	9.75 inches (247.6 mm)
Width:	10.5 inches (267 mm)
Depth:	5 inches (127 mm)
Weight:	6 pounds (2.7 kg)

Power Battery: Internal, rechargeable, 7.2V Nickel metal hydride

Charging Source:
External 12 VAC transformer, 1,3 A

Operating Time:
Greater than 6 hours, continuous without backlight

Environmental:
Oper. Temp: 0°C(+32°F) to +50°C(+122°F)
Typical Temp: -15°C(+5°F) to +60°C(+140°F)
Storage Temp: -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 ft. (19,400 m) at .990 VOP
38,600 ft. (11,700 m) 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 w/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% to 99.9%; V/2 with 4 digit precision ranging from 45 to 148 meters mode or from 148 to 487 in feet mode.

Input Protection:
400 volts (AC+DC) from DC to 400Hz 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, 2: +/- .5 ft.(15 m) plus +/- .01% of reading

Serial I/O Port: RS-232

Output Pulses:
Coax: sub-nanosecond, 2,25,100,500 nanoseconds
Line 1, 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: 6,144 samples per waveform
Standard: 8 waveforms
Optional: 32 waveforms

Automatic/Manual Noise Filter:
Standard: 8x averaging, 50/60 Hz, auto-filter
Optional: 4x,16x,32x,64x,128x averaging

Standard Accessories:
Operator's manual, shoulder strap, battery charger and pack, probes & connectors, noise filters, Waveview for Windows software, clip-on accessory bag.

Optional Accessories:
Additional waveform storage, multi-functional/multi-level noise filtering, strand hooks kit, 12V cigarette lighter charger, custom soft-side carry case, extended warranty.