

# Riser Bond Model 3200

METALLIC TIME DOMAIN REFLECTOMETER CABLE FAULT LOCATOR

## ACCURATE TO A FAULT

Model 3200 TDR, Cable Fault Locator, is one of the fastest, most accurate test methods for locating problems on metallic cable. The instrument's easy operation and field durability make the Model 3200 a valuable troubleshooting tool.

## THE INSTRUMENT

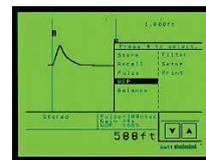
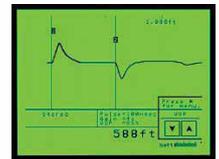
Model 3200 is a handheld, metallic TDR designed specifically for fault locating on coaxial cable, or any two conductor metallic cable.

Designed for easy operation and engineered for accuracy, Model 3200 will quickly and easily locate and identify opens, shorts, splices, tap, splitters, and other cabling faults and conditions. Verify the lengths of new reels of cable and measure partial reels for cable inventory.

The Model 3200 is housed in a high impact ABS plastic case and further protected by a nylon carrying bag, which provides storage for connectors and Operator's manual. The high resolution Liquid Crystal Display shows the live waveform of the cable under test, plus useful data such as distance to the fault, pulse width, and battery charge level. The built-in backlight is ideal when testing in a low light environment.

Selected functions and operations are controlled by the keypad, such as waveform position, horizontal zoom, vertical gain, cursors, range, contrast, and backlight. A popup menu is easily accessible for additional functions. Riser-Bond Instruments' unique popup menu system allows the operator to quickly select and use a function while the waveform is active.

The high energy, rechargeable batteries keep the instrument instantly ready for service calls.



The small size and lightweight packaging is convenient for all aerial and underground applications. The rugged, splashproof casing is ideal for outside environments.

The low price of the Model 3200 allows an instrument for every technician. More instruments in the field means faster repair and return to service, reduced customer repeats, improved customer relations, and increased revenue!



## FEATURES AND BENEFITS

Exclusive features, such as RANGE-PLUS, Noise Filters, SUPER-STORE, and Intermittent Fault Detection (IFD) provide the Model 3200 with superior functions and test capabilities.

RANGE-PLUS steps through preset ranges to quickly scan the cable for faults. Each range consists of a specific pulse width, vertical gain, and distance of cable.

Eliminate unwanted waveform noise with multi-level software filtering.

Use the exclusive SUPER-STORE waveform data storage to store both on-screen and off-screen cable waveform information. Move the cursors, change the VOP, and increase or decrease the vertical gain and horizontal zoom settings, even on stored waveforms!

Monitor and locate hard-to-find intermittent faults using the Intermittent Fault Detection (IFD) mode. Manual operation is always available to move the waveform position, change the VOP, and adjust the gain and zoom settings, without having to restart the IFD test.

PRODUCT SPECIFICATIONS	
<b>Physical – Instrument Only:</b>	
Height:	4.7 inches (120 mm).
Width:	9.5 inches (240 mm).
Depth:	2.4 inches (60 mm).
Weight:	2.75 pounds (1.2 kg).
<b>Physical – Instrument with Nylon Carrying Case</b>	
Height:	6 inches (152 mm).
Width:	11 inches (280 mm).
Depth:	4.5 inches (115 mm).
Weight:	4.75 pounds (2.15 kg).
<b>Environmental:</b>	
Operating Temperature:	0° C to 50° C (32° F to 122° F).
Storage Temperature:	-20° C to 60° C (-4° F to 140° F).
Humidity:	95% maximum relative, non-condensing.
<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 10 hours, continuous, without backlight.
<b>Display:</b>	320 x 240 dot-matrix liquid crystal display with electroluminescent backlighting.
<b>Horizontal Resolution:</b>	1 foot (0.1 m) at any VOP.
<b>Vertical Resolution:</b>	14 bits with 203 dots displayed.
<b>Vertical Sensitivity:</b>	Greater than 56 dB.
<b>Output Signal:</b>	Pulse widths of 5, 25, 100, 500 nsec.
<b>Distance Accuracy:</b>	± 0.5 ft (0.15 m) plus ± 0.01% of reading.
<b>Maximum Ranges:</b>	63,700 ft (19.4 km) at 99% VOP 51,500 ft (15.7 km) at 80% VOP Range varies with VOP. Maximum testable cable lengths varies with pulse width and cable type.
<b>Input Protection:</b>	400 V (AC+DC) from DC to 400 Hz, decreasing to 10 V at 1 MHz.
<b>Velocity of Propagation:</b>	Two user-selectable display formats: VOP (%) with 2 digit precision ranging from 30% to 99% V/2 with 3 digit precision ranging from 45 to 148 in meters mode or from 148 to 487 in feet mode.
<b>Waveform Storage:</b>	
Standard:	6144 samples per waveform 16 SUPER-STORE waveforms.
<b>Noise Filters:</b>	
Standard:	50/60Hz, 4x, 8x, 16x, 32x, 64x, 128x, Auto, Averaging.
<b>Standard Accessories:</b>	Operator's manual, 12 VAC charger, Black nylon carrying case, probes, connectors.

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



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