

# Riser Bond Model 3300

Metallic Time Domain Reflectometer Cable Fault Locator

## Restore the service

Model 3300 TDR, Cable Fault Locator, is one of the fastest, most accurate test methods for locating problems on twisted pair cable. The instrument's easy operation and field durability make the Model 3300 a valuable troubleshooting tool.

## The instrument

Model 3300 is a handheld metallic TDR designed specifically for fault locating in a variety of twisted pair cable applications, such as telephone, LAN, signaling, utilities, and avionics.

Designed for easy operation and engineered for accuracy, Model 3300 tests for opens, shorts, sheath faults, broken or loose conductors, load coils, bridged taps, water damage, crimps, cuts, smashed cables, and more!

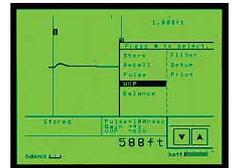
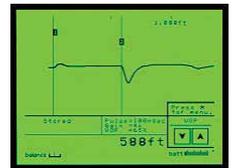
The Model 3300 is housed in a high impact ABS plastic case and further protected by a nylon carrying bag, which provides storage for connectors and Operator's manual. The high resolution Liquid Crystal Display shows the live waveform of the cable under test, plus useful data such as distance to the fault, pulse width, balance control setting, 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 select and use a function while the waveform is active.

A balanced test port minimizes the blind spot associated with the TDR test pulse and matches the instrument to the cable under test. This helps locate faults close to the instrument.

The high energy, rechargeable batteries keep the instrument 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 3300 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 / key benefits

Exclusive features, such as RANGE-PLUS, Noise Filters, SUPER-STORE, and Intermittent Fault Detection (IFD) provide the Model 3300 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	
Physical – Instrument Only:	
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).
Physical – Instrument with Nylon Carrying Case	
Height:	6 inches (152 mm).
Width:	11 inches (280 mm).
Depth:	4.5 inches (115 mm).
Weight:	4.75 pounds (2.15 kg).
Environmental:	
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.
Power:	
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.
Display:	320 x 240 dot-matrix liquid crystal display with electroluminescent backlighting.
Horizontal Resolution:	1 foot (0.1 m) at any VOP.
Vertical Resolution:	14 bits with 203 dots displayed.
Vertical Sensitivity:	Greater than 56 dB.
Output Signal:	Pulse widths of 5, 25, 100 nsec, 1 usec.
Output Balance:	Variable.
Distance Accuracy:	± 0.5 ft (0.15 m) plus ± 0.01% of reading.
Maximum Ranges:	63,700 ft (19.4 km) at 99% VOP. 38,600 ft (11.8 km) at 60% VOP. Range varies with VOP. Maximum testable cable lengths varies with pulse width and cable type.
Input Protection:	400 V (AC+DC) from DC to 400 Hz, decreasing to 10 V at 1 MHz.
Velocity of Propagation:	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.
Waveform Storage:	6144 samples per waveform:
Standard:	16 SUPER-STORE waveforms.
Noise Filters:	
Standard:	50/60Hz, 4x, 8x, 16x, 32x, 64x, 128x, Averaging, Auto.
Standard Accessories:	Operator's manual, 12 VAC charger, nylon carrying case, telco test leads.

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



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