

Riser-Bond Instruments

Model 6000



FIVE TESTS. ONE CONNECTION.

By combining diagnostic and fault location capabilities in one instrument, the Model 6000 offers:

- **Multi-Meter DC volts, AC volts, Foreign Battery, and Resistance.**
- **Insulation Resistance.**
- **Pair Quality Tests – Loop Current, Noise Metallic, Power Influence, and Longitudinal balance.**
- **Resistance Fault Locator (RFL) Offers Three Different Test Modes: 3-Wire, 4-Wire, and Kupfmuller.**
- **Time Domain Reflectometer (TDR) Measures Through Loaded And Non-loaded Cable.**



Power: On/Off.



Backlight: Great for low light situations.



Contrast: Adjusts for clearer viewing.



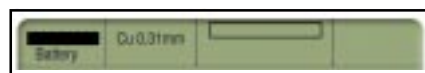
Help: One key gets your technicians the help they need.



Auto Test: One key runs a battery of instrument testing and diagnostics.



End/Back: Stops test or returns to a previous screen.



Status Bar: Displays configuration and conditional information such as battery level, cable type, progress bar, and voltage source.

The productivity of your technicians relates directly to the satisfaction of your customers — that's the philosophy behind the Model 6000 from Riser Bond Instruments. With its 5-in-1 — Multi-Meter, Insulation Resistance Tester, Pair Balance and Noise Measurements, Resistance Fault Locator and Riser Bond TDR testing capabilities, one connection lets your technicians quickly diagnose most any problem on a voice or high-speed telephone data cable. Its basic functionality makes the Model 6000 easy-to-learn; its compact size makes it even easier to use.

While five tests with one instrument is impressive, we know you demand more and the Model 6000 delivers. Selected test capabilities can be integrated — viewing RFL and TDR on-screen simultaneously allows the technician an additional means of verifying the locations of the fault. All on-screen tests are displayed using a logical “left to right” approach (with on-screen instructions) that reduces training time while increasing ease-of-use. Its compact size, carrying

Better Service.



Softkey Menu: Allows your technicians to select testing menu items and move easily between screens.

case and lighter weight allow for the easy transport of one instrument into remote locations or small spaces.

Display: Larger than industry standard, the Model 6000's screen uses SUPERTWIST LCD to display test results, softkey menu, instrument setting, and status. Visual representation of each test being performed aids the technician in the interpretation of results. SUPER-STORE waveform data storage stores both on-screen and off-screen information, which can be quickly downloaded and printed.

For nearly 20 years, Riser Bond Instruments has specialized in providing the most accurate, highest quality testing equipment in the marketplace. Their equipment is supported by the industry's best customer service. Should your instrument need repair, Riser Bond Instruments will maximize turn-around time to minimize down time. Call today and see for yourself why Riser Bond is the industry leader.



Zoom In/Out: Get the big picture or isolate a problem with one touch of a button.



Waveform Position: Moves waveform(s) for easy viewing.



V Gain: Increases or decreases vertical waveform/gain.



Mode: Moves quickly between waveform modes.



Range: Adjusts range for pinpoint accuracy.



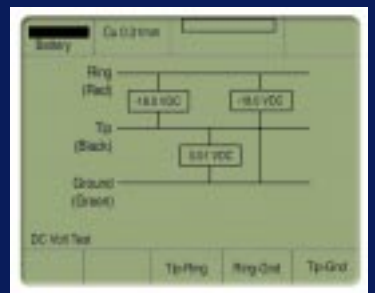
Cursors: Easily moves cursor along waveform.



There are 3 possible RFL test modes.



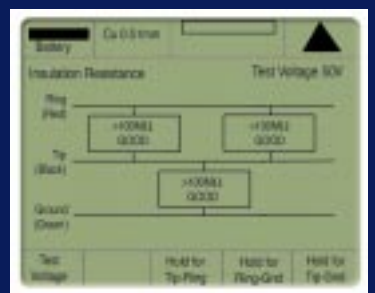
Noise metallic is one of the pair quality tests available.



The DC volts test is performed with the Multi-Meter function.



TDR operation.



The Insulation Resistance screen at 50 volts.

General Specifications

Physical (no case or accessories):

Height	6.30 in.	160 mm
Width	9.45 in.	240 mm
Depth	2.36 in.	60 mm
Weight	3 lbs.	1.3 kg

Physical (case and accessories)

Height	7.80 in.	198 mm
Width	11.0 in.	279 mm
Depth	6.5 in.	165 mm
Weight	6 lbs.	2.6 kg

Environmental

Operating Temp	0° C to 50° C	32° F to 122° F
Storage Temp	-20° C to 60° C	-4° F to 140° F
Humidity	95% max. relative, non-condensing	
Vibration	IEC 68-2-6	
Shock (Bump)	IEC 68-2-29	
Drop	IEC 68-2-27	
Moisture Rating	IP 54	

Power

Internal battery pack	Rechargeable, 7.2V nickel metal hydride
External	12 VAC or VDC, 1250mA power supply
Operating Time	>6 hours without backlight
Display	320 X 240 dot-matrix liquid crystal display with CCFL backlighting

Time Domain Reflectometer (loaded and non-loaded cable)

Horizontal Resolution

<2000 ft	<0.25 ft at 99.0% VOP, <0.07 ft at 30.0% VOP
>2000 ft	1 foot at any VOP

Vertical Resolution 14 bits with 137 dots displayed

Vertical Sensitivity >65dB

Output Signal 2ns, 25ns, 100ns, 500ns, 1.5µs, 4.4µs and 330 ms

Output Balance Variable from 80Ω to 120Ω

Distance Accuracy ±0.5 ft plus ±0.01% of reading
..... ±0.15 m plus ±0.01% of reading

Maximum Range

Live Waveform 63,700 ft (19,400 m) at 99.0% VOP
..... 38,600 ft (11,700 m) at 60.0% VOP

Range varies with VOP. Maximum testable cable length varies with pulse width and cable type.

Input Protection 400 VAC or VDC up to 60 Hertz

Velocity of Propagation Two user-selectable display formats.

VOP (%) ranging from 30.0% to 99.0%

Loaded Cable VOP (%) ranging from 0.8% to 20.0%
V/2 ranging from 45.0 to 148.4m/ms or 147.5 to 486.9 ft/ms

Loaded Cable V/2 ranging from 1.2 to 30.0 m/ms or 3.9 to 98.4 ft/ms

Waveform Storage

Standard 8 SUPER-STORE waveforms at 6144 samples each

Optional 32 SUPER-STORE waveforms at 6144 samples each

Software Noise Filters

Standard	8x, 50/60 Hz
Optional	4x, 8x, 16x, 32x, 64x, 128x, 50/60Hz

Resistance Fault Locator

Location Range 0 to 100 kft

Resistance Fault Range 0 to 50MΩ

Accuracy

3-Wire Test ±0.25% of DTS ±0.4ohms

4-Wire Test ±0.25% of DTS ±0.25ohms

Kupfmuller Test ±1.0% of DTS ±1 ohm

Noise/Balance Measurements

Longitudinal Balance 40 to 62 dB

Frequency 1004 Hz

Resolution 1 dB

Accuracy ±2 dB

Noise Metallic 0 to 50 dBmC

Transverse Noise -90 to -40 dBmp

Resolution 1 dB

Accuracy ±2 dB

Power Influence 40 to 100 dBmC

Longitudinal Noise -50 to 10 dBmp

Resolution 1 dB

Accuracy ±2 dB

Multi-Meter

DC Voltage 0 to 400V

Resolution 0.1V

Accuracy 1% ±0.1V

AC Voltage 0 to 400V

Resolution 0.1V

Accuracy 1% ±0.1V

Foreign Battery 2 to 400V

Resolution 0.1V

Accuracy 1% ±0.1V

Resistance

0 to 2 kΩ

Resolution 0.1Ω

Accuracy 0.2%±0.2Ω

2kΩ to 10kΩ

Resolution 1Ω

Accuracy 0.2%±1Ω

Insulation Resistance

0.00MΩ to 100MΩ

Resolution 0.01MΩ

Accuracy ±1%

Loop Current 0 to 120mA

Resolution 0.1mA

Accuracy 5% ±0.1mA

Standard Accessories

Operator's Manual, 12VDC charger, nylon carry/accessory bag, shoulder strap, 2 sets telephone connection leads plus ground lead, pair shorting strap, and VOP card.

Options

Extended waveform storage, 32 waveforms, and extended TDR noise filters.



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