

ABN 43 064 478 842

231 osborne avenue clayton south, vic 3169 PO box 1548, clayton south, vic 3169 t 03 9265 7400 f 03 9558 0875 freecall 1800 680 680

www.tmgtestequipment.com.au

Test & Measurement

- sales
- rentals
- calibration
- repair
- disposal

Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

If you click on the "Click-to-Call" logo below, you can all us for FREE!



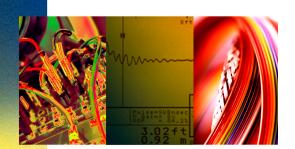
Disclaimer:

All trademarks appearing within this PDF are trademarks of their respective owners.









Model 6000

Multi-Function Telephone Network Analyzer

FEATURES/KEY BENEFITS

- Diagnostic and fault location functions in one instrument – Integrated testing system enables the technician to diagnose and locate faults with one easy to use, high quality instrument.
- Diagnostic Test Package Identify conditions on the line that can adversely affect service using the following diagnostic tools:
 - Multi-Meter Measure AC volts, DC volts, foreign battery, resistance and insulation resistance.
 - Pair Quality Tests Measure loop current, noise metallic, power influence and longitudinal balance.
- Fault Location Test Package Restore existing service quicker or reclaim unused lines for new service with accurate fault location tools:

Time Domain Reflectometer (TDR)

- Accurately locate opens, shorts, water in cable, bad splices and cable damage with the same full-function TDR found in Riser Bond's stand-alone instruments.
- **Resistance Fault Locator (RFL)** Three test modes. Locate resistance faults on a pair or on a single conductor.
- **Stress TDR** This exclusive feature enhances the instrument's ability to locate faults due to moisture in the cable.
- **Open/Capacitance Meter** Measure capacitance to the end of the pair or locate fault caused by an open circuit.
- Ease-of-Use Features The soft-key menu's intuitive left-to-right operation guides the technician through logical testing steps to diagnose and locate faults. Most tests are performed using the same connection to the line.
- Auto-Test and Fault Analysis Functions Press the Auto-Test key to perform a series of basic diagnostic tests. The Fault Analysis function will then suggest the appropriate fault location tool to use to most effectively locate the problem.



- SUPER-STORE Waveform Data Storage
 - Analyze TDR waveforms in a more convenient time or place. The instrument also stores Auto-Test records.
- WAVE-VIEW Software View, manipulate, print and archive TDR waveforms on your computer.
 Document plant, certify new builds, and store waveforms for later comparisons.
- Optional Oscillator and Probe One unassisted technician working at a distance from the exchange can disconnect a customer's service, identify the cable pair, open and close the circuit, and reconnect the customer after desired tests are complete.
- Large LCD Display Test results and interpretive information are presented in an easy to read format on a screen that is larger than those found on many competitive units.



Model 6000

Integrated test solution

Product Specifications

Physical Dimensions

Main instrument without carrying case & accessories: Height: 6.93 inches (176 mm) Width: 10.71 inches (272 mm) Depth: 3.15 inches (80 mm) Weight: 4.8 pounds (2.2 kg) Main instrument with carrying case and accessories: Height: 7.80 inches (198 mm) Width: 11.18 inches (284 mm) 7.0 inches (178 mm) Depth: Weight: 7.9 pounds (3.6 kg)

Power

Internal: Rechargeable, 7.2 V Nickel metal hydride battery pack External: 12 VAC or VDC, 1250mA power supply Operating Time: Greater than 5 hours. continuous without backlight

Environment

Operating temperature: 0Þ C (+32Þ F) to +50Þ C (+122Þ F) Storage temperature: -20Þ C (-4Þ F) to +60Þ C (+140Þ F) Humidity: 95% maximum relative humidity, non-condensing IEC 68-2-3 Vibration: IEC 68-2-6 Shock (Bump): IEC 68-2-29, 40g, 6ms, 1000 shocks in each axis IEC 68-2-27, 1m free fall, packaged in carry Drop: case

Display

Moisture rating:

320 x 240 dot-matrix, liquid crystal display (LCD) with CCFL backlighting

Multi-Meter

Resolution:

Accuracy:

DC Voltage: 0 to 400V Resolution: 0.1V Accuracy: 1%±0.1V AC Voltage: 0 to 400V Resolution: 0.1V Accuracy: 2%±0.1V Foreign Battery: 2 to 400V Resolution: 0.1V Accuracy: 1%±0.1V Resistance: 0 to 1999.9W

Accuracy: 0.2%±0.2W 2kW to 10kW 1W

Resolution: 0.2%±1W Accuracy:

Insulation Resistance

Voltages: 50V/100V/250V/500V OW to 9.99MW Resolution: 0.01MW Accuracy: 2%±0.01MW 10MW to 99.9MW Resolution: 0.1MW

Accuracy: 4% 100MW to 999MW Resolution: 1MW Open/Capacitance Meter

0 to 1000 ft (0 to 100 m)

Resolution: 1 ft (0.1 m) Accuracy: 2% ±3 ft (1 m) 1000 ft to 10,000 ft (100 m to 1,000 m) Resolution: 10 ft (1 m) Accuracy:

10,000 ft to 100,000 ft (1000 m to 10,000 m) 100 ft (10 m) Resolution: Accuracy: +5% 100,000 ft to 150,000 ft (10,000 m to 50,000 m) 1000 ft (100 m)

Resolution: Accuracy: +8%

0 to 9 99nF Resolution:

Accuracy: $2\% \pm 0.06$ nF 10.0 to 99.9nfF Resolution: 0.1 nF Accuracy: ±3% 100 to 999nF Resolution: 1 nF Accuracy: ±5% 1000 to 2000nF 1 nF

Accuracy: Pair Quality

IP 54

0.1W

10%

Resolution:

Loop Current: 0 to 120mA Resolution: 0.1mA Accuracy: 5% ±0.2mA 0 to 50 dBrnC Noise Metallic Resolution: 1 dB ±2 dB Accuracy: Power Influence: 40 to 100dBrnC

1 dB Resolution: Accuracy: ±2 dB Longitudinal Balance: 40 to 62dB Resolution: 1 dB Accuracy: +2 dB

Time Domain Reflectometer (TDR)

loaded and non-loaded cable Maximum Ranges:

Live waveform:

63,700 feet (19,400 meters) at 99.0% VOP 38,600 feet (11,700 meters at 60.0% VOP Range varies with VOP Maximum testable cable length varies with pulse width and cable type.

Stored waveform: 11,900 ft (3,600.0 m) at 99.0% VOP 7,200 ft (2,200.0 m) at 60.0% VOP

Range varies with VOP. Horizontal Resolution:

Up to 2,000 ft (610 m):<.25 ft (.07 m) at 99.0% VOP <.07 ft (.02 m) at 30.0% VOP

Over 2,000 ft (610 m) 1 ft. (.1 m) at any VOP Vertical Resolution: 14 bits with 137 dots displayed Vertical Sensitivity: Greater than 65 dB Output Signal: Pulse widths of 2ns, 25ns,

100ns, 500ns, 1.5µs, 4.4µs and 330µs Output Balance: Variable, from 80W to 120W

Velocity of Propagation:

Two user-selectable display formats.

Non-loaded cable: 30.0% to 99.0% VOP (%): Loaded cable: 0.8% to 20.0% V/2· Non-loaded cable: 147.5 to 486.9 ft/µs (45.0 to 148.4 m/us)

Loaded cable: 3.9 to 98.4 ft/µs (1.2 to 30.0 m/µs)

400 VAC or VDC up to 60 Hz Input Protection: Distance Accuracy: Accuracy will vary with cable VOP and cable type. +/- .5 ft (.15 m) plus +/- .01% of

Software Noise Filters

Standard: 8x, 50/60 Hz



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

Resistance Fault Locator (RFL)

Location Range: 0 to 150 kft (0 to 45 km) Resistance fault range: 0 to 50MW

Accuracy

0.01nF

±8%

3-Wire Test: ±0.25% of DTS plus ±0.4W 4-Wire Test: ±0.25% of DTS plus ±0.25W Kupfmuller Test: ±1.0% of DTS plus ±1W

Storage

Standard: and TDR waveform 8 Auto Test

records Optional: 32 Auto Test and TDR waveform

records

Riser Bond Oscillator and Probe

Communications for: short pair, open pair, exchange connect, disconnect, pair identification tone

Accessories:

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

Optional: Extended waveform storage, extended TDR noise filters, Extended Warranty.

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

MAINTAINING THE CONNECTION

At Riser Bond Instruments, our first commitment is to you our customer

We start with product. Riser Bond builds our entire line of high-performance test equipment to meet your unique needs. And then we back them all with training, technical support, and the most comprehensive customer service and warranty in the industry.

When you choose Riser Bond, you have decades of product design knowledge and field experience inside every one of our state-of-the-art test instruments, and a guarantee of expert service after the sale. Riser Bond..

maintaining the connection.

Radiodetection 154 Portland Road Bridgton Maine 04009 USA

Toll Free: 1-877-247-3797

Tel: (207) 647-9495 Fax: (207) 647-9596 Bridgton@radiodetection.spx.com



ISO 9001 REGISTERED