Model 6000DSL General Specifications MODEL 6000DSL Physical

Without carrying case & accessories: Height: 6.30 inches (160 mm) Width: 9.45 inches (240 mm) Depth: 2.36 inches (60 mm) Weight: 3 pounds (1.3 kg)

With carrying case and accessories:

Height: 7.80 inches (198 mm) Width: 11.0 inches (279 mm) Depth: 6.50 inches (165 mm) Weight: 6 pounds (2.6 kg)

Remote Device

Height: 8.50 inches (216 mm) Width: 3.94 inches (100 mm) Depth: 1.58 inches (40 mm) Weight: 1 pound (0.4 kg)

Oscillator/Far End Unit

Height: 9.06 inches (230 mm) Width: 1.38 inches (35 mm) Depth: 0.98 inches (25 mm) Weight: 7.41 ounces (210 g)

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 IEC 68-2-3 Vibration: IEC 68-2-6 Shock (Bump): IEC 68-2-29, 40g, 6ms, 1000 shocks in each axis Drop: IEC 68-2-7, 1m free fall, Packaged in carry case Moisture rating: IP 54

Power

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

Display

320 X 240 dot-matrix liquid crystal display (LCD) with CCFL backlighting.

Multi-Meter

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 2k Resolution: 0.1Ω Accuracy: $0.2\%\pm0.2\Omega$

Resistance: $2k\Omega$ to $10k\Omega$ Resolution: 1Ω Accuracy: $0.2\%\pm1\Omega$

Insulation Resistance

Voltages: 50V/100V/250V/500V0.00M Ω to $10M\Omega$ Resolution: 0.01M Ω Accuracy: $2\%\pm0.01M\Omega$ $10M\Omega$ to $100M\Omega$ Resolution: $0.1M\Omega$ Accuracy: 4%

100M Ω to 1G Ω Resolution: 1M Ω Accuracy: 10%

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: ±3%

10,000 ft to 100,000 ft (1000 m to 10,000 m) Resolution: 100 ft (10 m) Accuracy: ±5%

100,000 ft to 150,000 ft (10,000 m to 50,000 m) Resolution: 1000 ft (100 m) Accuracy: ±8%

Pair Quality

Loop Current: 0 to 120mA Resolution: 0.1mA Accuracy: 5% ±0.2mA

Noise Metallic (POTS): 0 to 50 dBrnC Resolution: 1 dB Accuracy: ±2 dB

Power Influence (POTS): 40 to 100dBrnC Resolution: 1 dB Accuracy: ±2 dB

Longitudinal Balance (POTS): 40 to 62dB Resolution: 1 dB Accuracy: ±2 dB

Insertion Loss: 0 to 60 dB Frequency Range: 30 Hz to 2.2 MHz Resolution: 1 dB Output Level: 0 and -10 dBm

Crosstalk (NEXT and FEXT): -20 dB to -70 dB Frequency Range: 30 Hz to 2.2 MHz Resolution: 1 dB Output Level: 0 and -10 dBm Impedance: 100, 120, 135, 600, 900 ohm and TN12

Power Spectral Density

Wideband Dynamic range -20 to -140 dBm/HzFrequency Range: 10 kHz to 2.2 MHz Resolution BW: 10 kHz Impedance: 100Ω , 120Ω and 135Ω

Time Domain Reflectometer

loaded and non-loaded cable Horizontal Resolution: *For distances less than 2,000 ft:* <0.25 ft at any VOP <0.07m at any VOP

For distances over 2,000 ft: 1 foot at any VOP 0.1 meter at any VOP

Vertical Sensitivity: >65dB

Output signal: Pulse widths of 2ns, 25ns, 100ns, 500ns, 1.5μ , 4.4μ and 330μ .

Distance Accuracy: ± 0.5 ft plus $\pm 0.01\%$ of reading ± 0.15 m plus $\pm 0.01\%$ 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. 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

Input Protection

400VAC or VDC up to 60 Hz

Velocity of Propagation

Two user-selectable display formats: VOP and V/2 $\,$

Waveform Storage

8 SUPER-STORE waveforms at 6144 samples each (Standard) 32 SUPER-STORE waveforms at 6144 samples each (Optional)

Software Noise Filters

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

Resistance Fault Locator (RFL)

Location Range: 0 to 150 kft (0 to 45 km)Resistance fault range: 0 to 50M Ω Accuracy:

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

Riser Bond Remote and Optional Oscillator

Remote Device Communications for: Short pair Open pair Exchange connect, disconnect Send Loss/Crosstalk signals Set Terminations Pair identification tone

Oscillator/Far End Unit

Communications for: Short pair Open pair Exchange connect, disconnect Pair identification tone

Standard Accessories

Operator's Manual, 12VDC charger, nylon carry/accessory bag, 2 shoulder straps, 2 sets telco connection leads plus ground lead, pair shorting strap, VOP card, "hands-free" telephone ear piece/microphone.

Optional Accessories

Extended waveform storage, 32 waveforms Extended TDR noise filters, Extended Warranty