

# Optical Loss Tester—OT-1000

## *Optical Loss Testing*

The OT-1000 is the most powerful Optical Insertion Loss Testers (OILT) on the market, combining a stabilized laser light source and a standard calibrated power meter. This unit allows selection of calibration, wavelength or linear/logarithmic measurements. The set contains a microprocessor which controls and monitors the analog section, analog to digital converter, liquid crystal display keypad and calibration EPROM.

With a built-in light source OT-1000 is also designed for testing bi-directional optical power attenuation. With its ergonomic exterior and backlight LCD design, it is ideal for field installation and maintenance in LAN/WAN, FDDI, Telecom, and CATV applications.

## *Main Features*

- Ideal for bi-directional testing for both multimode and single-mode fibers
- One-touch selection of Auto/Manual mode, on-screen wavelength display
- Peak-value display function with on/off toggle switch
- Ergonomic, eye-catching handheld package
- Backlight LCD display
- LCD displays on emitter power and wavelength
- Built-in LED flashlight

## *Applications*

- Optical Insertion loss measurement
- Fiber attenuation measurement
- LD/LED light source in the fiber communication systems



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## *Specifications*

<b>Item/Model</b>	<b>OT-1300</b>
<b>Sensor Type</b>	<b>Ge</b>
<b>Spectral Range</b>	<b>800 to 1800 nm</b>
<b>Measuring Range</b>	<b>+20 dBm ~ -45 dBm</b>
<b>Calibration</b>	<b>850, 1300, 1310, 1490, 1550 nm</b>
<b>Fiber Connector</b>	<b>FC and SC and ST adaptors</b>
<b>Uncertainty</b>	<b>±0.2 dB (±5%) at -20 dBm</b>
<b>Resolution</b>	<b>0.01 dB</b>
<b>Linearity</b>	<b>±0.05 dB</b>

<b>Item / Model</b>	<b>-02</b>	<b>-06</b>
<b>Emitter Type</b>	<b>LED</b>	<b>Laser Diode</b>
<b>Wavelength</b>	<b>1300±30 nm</b>	<b>1310/1550±30 nm</b>
<b>FWHM (Typical)</b>	<b>140 nm</b>	<b>5 nm</b>
<b>Output Power<sup>1</sup></b>	<b>≥ -18 dBm (MMF)</b>	<b>≥ -10 dBm (SMF)</b>
<b>Connector Type</b>	<b>FC or SC or ST</b>	
<b>Output Stability (1 hour/8 hours)</b>	<b>±0.06 dB/±0.1 dB</b>	

<b>Dimensions</b>	<b>196 (L) x 100 (W) x 40 (H) mm</b>
<b>Weight</b>	<b>450 g</b>
<b>Temperature</b>	<b>Operating: -0 to +50°C Storage: -20 to +60°C</b>
<b>Humidity</b>	<b>0 ~ 95% RH (Non-condensing)</b>
<b>Battery Power</b>	<b>20 hours – Continues power meter usage 12 hours – Continues Light source on 6 hours – Battery recharge time</b>

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