

1500 Series Power Meter & Light Source

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Features:

- Automated loss measurements for three wavelengths
- Power Meter with 80+ dB Dynamic Range
- Single port Laser source with up to three wavelengths
- Storage for 2000 triple wavelength loss measurements
- Auto wavelength switching
- Rechargeable Li polymer 9V battery
- USB interface
- Free Windows® compatible report software
- Universal Power Meter and Light Source adapters FC/ST & SC



The 1500 series are small, rugged automated fiber optic Power Meters and single port Light Sources available in single, dual or triple wavelengths. The power meter uses a sensitive InGaAs detector, calibrated at six wavelengths with an 80+ dB dynamic range.

When a PM-1500 power meter and an LS-1500 light source are used together, they can operate in autotest mode where the Light Source changes wavelengths at a fixed rate and informs the Power Meter of the wavelength currently being measured. Up to 2000 triple wavelength measurements may be stored and recalled via the unit's USB port or from the front panel. Windows® compatible PC application software is provided for downloading stored data and printing professional reports. These units are also compatible with the auto test functionality of the loss test set feature of the FTE7000 and FTE7500 series OTDRs.

The Light Source has a wavelength selectable single port for constant wave or modulated wave signal. The Power Meter performs fiber identification functions with the modulation mode of the LS-1500-X or any other light source with modulation frequencies of 270, 1000 or 2000 Hz.

Power is obtained from a rechargeable lithium polymer battery. Both units are supplied with a universal power supply, and in a pinch, any common 9V alkaline battery may be used.

Accessories included with both power meters and light sources are heavy duty case, protective rubber boot with stand, adaptors for FC, ST or SC connectors, universal power supply/charger, and manual. The power meter is also supplied with a CD containing application software and operating instructions plus a USB cable. All power meters and light sources carry a two year, components and workmanship warranty and a 30 Day Satisfaction Guarantee.

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1500 Series Specifications

Power Meter Specifications

Power Meter Detector Type	InGaAs
Calibrated Wavelengths	850, 1300, 1310, 1490, 1550, 1625 nm
Units of Measurement	dBm, dB,
Resolution	0.01dB
Measurement Range	+5 dBm to - 77 dBm (CATV +25 dBm to -57dBm)
Power Measurement Uncertainty	± 0.18 dB under reference conditions, ± 0.25 dB from 0 to -65 dBm, ± 0.35 dB from 0 to +5 dBm and from -65 to -77 dBm
Autotest Measurement Rate	Four seconds per wavelength
Autotest Range	0 to - 36 dB
Storage Locations	2000
Battery/Operating Time	Rechargeable Li Polymer/Approximately twenty hours following a full charge

Light Source Specifications

Laser Output Power	0 dBm, 1 mw
Output Stability	± .05 dB / 24 hrs @ constant temp., ± .02 dB/C temperature coefficient
Laser Wavelengths Provided	850nm, 1300nm, 1310 nm ± 20 nm, 1490 ± 20 nm, 1550 ± 20 nm
Spectral Width	< 3nm typ.
Modulation Modes	CW, 270 Hz, 1000 Hz, 2000 Hz
Laser Safety Classification.	Class I safety per FDA/CDRH and IEC-825-1 regulation
Battery	Rechargeable Li Polymer
Operating Time	Approximately fifteen hours following a full charge

General Specifications

Power Supply / Charger	Universal, US, UK, Continental Europe, and Australian Plugs Included
Power Requirements	95-260 VAC, 50-60 Hz, 3 VA Max
Operating Temperature Range	-0 to 40 C
Storage Temperature Range	Equipment -10 to 60C, Battery 0-40C
Dimensions (with rubber boot)	5.9" L x 3.9" W x 1.37" H (150mm L x 100mm W x 35mm H)
Weight	0.52 Kg
Accessories Provided	FC, ST, SC adaptors, rubber boot, battery, power supply/Charger, manual. (USB Cable, PC application. Software with power meter)

TTI reserves the right to change specifications without notice

Ordering Information

Multi-Mode Light Source

LS-1500-813	850/1300nm Multi-Mode Light Source
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Singlemode Light Sources

LS-1500-35	1310/1550nm Singlemode Light Source
LS-1500-345	1310/1490/1550nm Singlemode Light Source

Power Meters

PM-1500	Power Meter
PM-1500C	CATV Power Meter

For CATV power meter specifications, add "-C" to the end of the part number.



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