



## 1500 Series Power Meters And Light Sources



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 a 75 dB dynamic range.

When PM-1500 power meter and LS-1500-x light sources 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.

The Light Source has a selectable single port output 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.

### Features:

- Automated loss measurements for three wavelengths
- Auto wavelength switching
- Universal Power Meter and Light Source adapters FC/ST and SC
- Power Meter with -75 dBm Dynamic Range
- Single port Laser source with up to three wavelengths
- Storage for 2000 triple wavelength loss measurements
- Rechargeable Li polymer 9V battery
- USB interface
- Free Windows® compatible report software
- Reference level storage

### Terahertz Technologies, Inc.

169 Clear Road

Oriskany, NY 13424

Tel: +1 (315) 736-3642

Fax: +1 (315) 736-3642

Email: [sales@terahertztechnologies.com](mailto:sales@terahertztechnologies.com)

Web: [www.terahertztechnologies.com](http://www.terahertztechnologies.com)

# 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
Power Input Range	+5 dBm to - 77 dBm
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
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	-10 to 45 C
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

## 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
Modulation Modes	CW, 270 Hz, 1000 Hz, 2000 Hz
Autotest Measurement Rate	Four seconds per wavelength
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
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	-10 to 45 C
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

*TTI reserves the right to change specifications without notice*

## Ordering Information

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

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

Singlemode Light Sources	
LS-1500-3	1310nm Singlemode Light Source
LS-1500-4	1490nm Singlemode Light Source
LS-1500-5	1550nm Singlemode Light Source
LS-1500-35	1310/1550nm Singlemode Light Source
LS-1500-345	1310/1490/1550nm Singlemode Light Source



**Terahertz Technologies, Inc.**

169 Clear Road

Oriskany, NY 13424

Tel: +1 (315) 736-3642

Fax: +1 (315) 736-3642

Email: [sales@terahertztechnologies.com](mailto:sales@terahertztechnologies.com)

Web: [www.terahertztechnologies.com](http://www.terahertztechnologies.com)