

# 1500 Series Power Meter & Light Source

PM1500 & LS1500

## 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.



Made In the USA

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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  |
| Power Input 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

| 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.

| 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 |



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