



LTS-1500 Automated Fiber Optic Loss Test Set



The LTS-1500 is a small, rugged automated fiber optic loss test set that characterizes singlemode and multimode fiber links at wavelengths of 850, 1300, 1310, 1490 and 1550 nm. It is comprised of a sensitive InGaAs based optical power meter calibrated at six wavelengths with better than -75 dBm noise level plus a stabilized laser light source with up to three selectable wavelengths.

In the Autotest mode, the master unit changes wavelengths at a fixed rate and informs the slave unit of the wavelength currently being measured. Storing the loss measurement saves the loss at each wavelength in memory. Up to 2000 triple wavelength measurements may be stored and recalled via the unit's USB port or from the front panel. PC application software is provided for downloading stored data and organizing the information.

The units also performs fiber identification functions with modulation frequencies of 270, 1000 and 2000 Hz.

Power is obtained from a rechargeable lithium polymer battery that provides more than 15 hours of continuous operation, its universal power supply, or in a pinch, any common 9V alkaline battery.

Standard accessories include a protective rubber boot and stand, USB cable, adaptors for FC, ST or SC connectors, universal power supply/charger, CD containing application software and an operating instruction booklet.

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

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LTS-1500 Specifications

Power Meter Detector Type	InGaAs
Dynamic Range	+5 to -77 dB
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
Laser Output Power	0 dBm, 1mw
Output Stability	± .05 dB / 24 hrs @ constant temp., ± .02 dB/C temperature coefficient
Laser Wavelengths Provided	850nm, 1300nm, 1310 nm , 1490, 1550 (± 20 nm)
Modulation Modes	CW, 270 Hz, 1000 Hz, 2000 Hz
Laser Safety Classification	Class I safety per FDA/CDRH and IEC-825-1 regulation
Autotest Range	0 to - 36 dB
Display	LCD, power reading, 0.4" high digits, .01 dB resolution Power meter, laser wavelength display 0.16" high digits
Annunciators	Fiber ID, - 3, modulation mode - 4, Autotest - 2, Lo Bat, Auto Off
Storage Locations	2000
Battery/Operating Time	Rechargeable Li Polymer/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 for both Power Meter and Light Source, rubber boot, battery, Power supply/Charger, manual , USB Cable, PC application software

TTI reserves the right to change specifications without notice

LTS-1500 Ordering Information

LTS-1500-813	Loss Test Set with 850/1300nm Light Source
LTS-1500-3	Loss Test Set with 1310nm Light Source
LTS-1500-5	Loss Test Set with 1550nm Light Source
LTS-1500-35	Loss Test Set with 1310/1550nm Light Source
LTS-1500-345	Loss Test Set with 1310/1490/1550nm Light Source



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