



LTS-1500 Automated Fiber Optic Loss Test Set

- Automated loss measurements for three wavelengths
- Built in fiber identifier
- Adaptors for all popular fiber connectors
- Power Meter with - 75 dBm sensitivity
- Stable triple wavelength laser source
- Storage for 2000 triple wavelength loss measurements
- Rechargeable Li polymer 9 V battery
- USB interface with free PC application software



The LTS-1500 is a small, rugged automated fiber optic loss test set that characterizes singlemode fiber links at wavelengths of 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 9 V 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.

Options include a reduction in the number of laser wavelengths supplied.

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LTS-1500 Specifications

Power Meter Detector Type	Indium-Gallium-Arsenide
Calibrated Wavelengths	850, 1300, 1310, 1490, 1550, 1625 nm
Units of Measurement	dBm, dB, 0.01 db resolution
Display Update Rate	Six times per second
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, 1 mw
Output Stability	$\pm .05$ dB / 24 hrs @ constant temp., $\pm .02$ dB/C temperature coefficient
Laser Wavelengths Provided	1310 nm ± 20 nm, 1490 ± 20 nm, 1550 ± 20 nm
Modulation Modes Provided	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 regulations
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 Supplied	Rechargeable Li Polymer
Operating Time	Approximately fifteen hours following a full charge
Power Supply / Charger Provided	Wall Mount, 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 (mm)	150 L x 100 W x 35 H [with rubber boot]
Weight	0.52 Kg
Accessories Provided	FC, ST, SC adaptors for both source and power meter, rubber boot, Battery, Power supply/charger, manual, USB Cable, PC application software
Standard Warranty	Two years, Components and Workmanship, 30 Day Satisfaction Guarantee

TTI reserves the right to change specifications without notice

*We welcome the challenge of custom applications.
Call, fax, or e-mail us with your requirements.*



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