HPT-5100
HyperTest
Advanced Fiber Optic Loss Test Set

- Real time display of Dual Wavelength Loss and ORL
- Automated dual wavelength loss and ORL measurements
- Bi-directional measurements using a single fiber
- Built in fiber identifier
- Text Messaging Communications
- Computer and Printer interface
- Q VGA Graphic Display
- Display Backlighting
- Rugged, Watertight Case
- Storage for 1000 records
- Free PC application software
- Rechargeable NiMH batteries , 16 Hours / charge

The HPT-5100 Advanced Fiber Optic loss Test Set represents a significant improvement in technology at a competitive price. This high performance loss test set has advanced features commonly found in instruments costing far more.

As a true bi-directional loss test set it proves real-time (updated four times per second) measurements of Loss and Optical Return Loss of a single fiber in both directions at wavelengths of 1310 and 1550 nm.

When used as a Power Meter it measures optical signals over a dynamic range of +25 to - 60 dBm. Six calibrated wavelengths are provided. DB reference levels may be stored at each calibrated wavelength.

To maximize measurement productivity, text messaging is provided between the master and slave units. This allows quick and reliable communication between workers at each end of the fiber installation. The unit's Fiber Identification capability is useful for locating one of a number of fibers for measurement.

Up to 1000 records may be stored for later downloading to a computer for purposes of system documentation.

With its large four inch diagonal backlit graphic display, rugged casework and ease of use, the HPT-5100 is the perfect tool for the installation, characterization and maintenance of fiber optic systems

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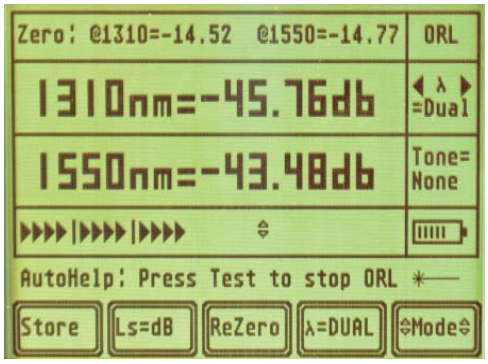
HPT-5100 Specifications

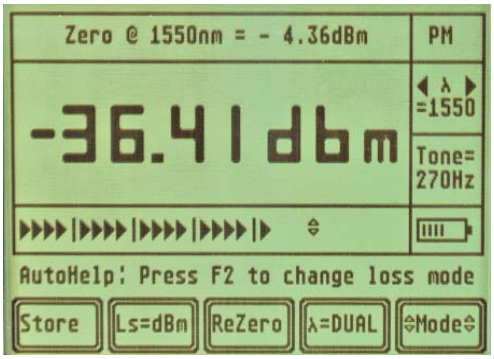
Loss Measurement Dynamic Range	0 - 45 dB in Hypertest Mode, 60 dB in Manual Mode
Loss Measurement Wavelengths	1310, 1550 nm, ± 20 nm
Units of Measurement	dBm, dB, 0.01 dB resolution
Measurement Rate	Four updates per second
Inter-unit Communications	Text, eight standard messages provided, Transmitted via Fiber-Under-Test
Hypertest Displayed Quantities	Loss A-B, Loss B-A, ORL from A, ORL from B, Each value @ 1310 and 1550 nm
Laser Safety Classification.	Class I safety per FDA/CDRH and IEC-825-1 regulations
Laser Output Power	0 dBm, 1 mw
Laser Output Stability	± 0.1 dB for 1 hour
Laser Linewidth	< 5 nm
Optical Return Loss Dynamic Range	0 - 65 dB
Optical Return Loss Accuracy	± 0.5 dB @ a -55 dB reflection
Power Meter Detector	InGaAs, 2 mm diameter with universal 2.5 mm ferrule adaptor
Calibrated Wavelengths Provided	850, 1300, 1310, 1490, 1550, 1625 nm
Modulation Modes Provided, (transmit and detect)	CW, 270 Hz, 1000 Hz, 2000 Hz
Power Meter Accuracy	± 0.18 dB under reference conditions, ± 0.3 dB +20 to - 50 dBm
Power Meter Display	.01 dB resolution, unit of dBm or dB
Memory Storage Locations	1000
Display	4 " QVGA LCD Graphic Display with Electroluminescent Back light
Standard Optical Connector Interface	FC/APC, (other types available or request)
Batteries Supplied	Rechargeable NiMH AA cells, eight
Operating Time	Approximately 16 hours following a full charge
Power Supply / Charger Provided	Wall Mount, 120 VAC, 50 -60 Hz, or 220 VAC 50-60 Hz, Specify
Power Requirements	10 VA Max
Temperature Range	0 to 50 C Operating,, -20 to 60 C Storage
Dimensions (L x W x D)	8.1" x 6.4" x 3.5", 210 x 160 x 90 mm
Weight	2.8 lbs, 1.3 Kg
Accessories Provided	Batteries, Power supply/charger, manual, Rs-232 Cable, PC application software
Standard Warranty	Two years, Components and Workmanship, 30 Day Satisfaction Guarantee

TTI reserves the right to change specifications without notice

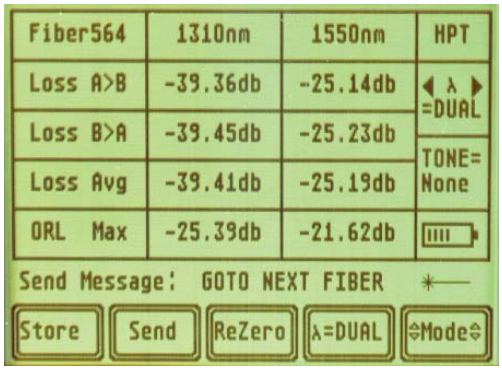
Optical Return Loss Mode



Power Meter Mode



HyperTest Mode



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