

TFS-401

Optical Loss Test Set - Optical Power Meter and Optical Light Source

- SOURCE 1310 nm / 1550 nm Operation with Simultaneous Outputs
- METER 1310 nm / 1490 nm / 1550 nm / 1625 nm Operation
- Absolute & Relative Measurements with Reference Storage
- Temperature Stabilized Input/Outputs
- Rugged Construction
- Long Battery Life with Quick-Charge Mode



Overview

The TFS-401™ Optical Loss Test Set gives technicians the capability to perform fast and accurate measurements in the field. Trilithic's new optical test set is housed in a rugged waterproof carrying case and includes our TFS-201™ Optical Light Source and TFS-301™ Optical Power Meter.

Alone, the optical power meter is ideal for absolute measurements. When the power meter is used in conjunction with the source relative measurements can be made to accurately determine fiber loss.

TFS-301 Optical Power Meter

The TFS-301 features NIST traceable calibration at 4 wavelengths: 1310 nm, 1490 nm, 1550 nm, and 1625 nm for accurate power level measurements.

TFS-201 Optical Light Source

When performing attenuation tests on fiber links, it is necessary to have a stable source of light on which to base measurements. The TFS-201 Optical Light Source provides the stability needed to allow accurate testing.

A perfect complement to the TFS-301 Optical Power Meter, the TFS-201 source allows simultaneous operation of both outputs or individual operation with either CW, 30 Hz, 500 Hz, or 2 kHz modulation.

The optical light source operates at 1310 nm or 1550 nm with ST, SC & FC Adapters.

Relative Measurements

When making relative measurements a technician has the ability to store zero references for reading all four wavelengths independently. This allows all zero references to be taken at one time and also allows the unit to be turned off while moving between locations to preserve battery life. By storing all four references a technician will have them available for immediate recall even when moving between locations.

Rugged Construction

The optical light source and optical power meter are both specifically designed with the field technician in mind providing a long battery life and rugged construction that includes high impact rubber bumpers, weather resistant membrane switches, and a durable powder coat finish further protecting the devices.

Quick-Charging

The TFS-401 Optical Loss Test Set devices are powered by either four AA alkaline batteries or an AC/DC adapter with four AA NiMH batteries (both the adapter and NiMH batteries are included).

In addition to standard charge mode, the units feature an emergency quick-charge mode that allows the user to charge the batteries in approximately 1 hour.



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SPECIFICATIONS

Source Emitter	FP Laser
Meter Detector	Ge
Port Style	Source - ST, FC, SC, others available Meter - Universal Detector Receptacle
Fiber Size (MAX)	100/140
Wavelength	Source - 1310 nm, 1550 nm Meter - 1310 nm, 1490 nm, 1550 nm, 1625 nm
Source Power	-8 dBm
Source Modulation	CW, 30 Hz, 500 Hz, or 2 kHz
Source Stability	±0.1 dB/8hr typical
Source Bandwidth	5 nm
Meter Range	+3 to -60 dBm (1300 / 1550 nm) +8 to -55 dBm (850 / 780 nm)
Meter Display Resolution	0.01 dB
Meter Accuracy	±0.25 dB
Operating Temperature	0°C to +50°C
Storage Temperature	-10°C to +60°C
Humidity	10% to 90%, non-condensing
Power	4 x AA NiMH or Alkaline Batteries, 120 VAC / 60 Hz
Battery Life	8-10 hours typical
Charge Time	Trickle Charge - 16 hours typical Quick Charge - 1 hour typical
Physical Specification	Size - 7" x 3.5" x 1.3" Weight - < 1lb.

INCLUDES THE FOLLOWING:

TFS-201 Optical Light Source
TFS-301 Optical Power Meter with
Fiber Adapter Cap
Hard Sided Case
Eight (8) "AA" NiMH Rechargeable
Batteries
AC to DC Adapter/Charger (Qty 2)
Operation Manual on CD

RELATED PRODUCTS:

TFS-FS1 Optical Leakage Detector
P/N 2011390000
TFS-290 Optical Tracer Source
P/N 2011417000
TFS-291 Optical Tracer Source
P/N 2011417010
TFS-FS1K505 Optical Leakage
Detector Kit
P/N 2011391000
TFS-FS1K555 Optical Leakage
Detector Kit
P/N 2011391010
TFS-FS1K557 Optical Leakage
Detector Kit
P/N 2011391020

