

# TFS-301

## Optical Power Meter

- 1310 nm / 1490 nm / 1550 nm / 1625 nm Operation with Universal Detector Receptacle
- Absolute & Relative Measurements with Reference Storage
- Temperature Stabilized Input
- Rugged Construction
- Long Battery Life with Quick-Charge Mode



### Overview

Alone, the TFS-301™ Optical Power Meter is ideal for absolute measurements. When the power meter is used in conjunction with the TFS-201™ Optical Light Source relative measurements can be made to accurately determine fiber loss.

Trilithic's new TFS-301 Optical Power Meter features NIST traceable calibration at 4 wavelengths: 1310nm, 1490nm, 1550nm, and 1625nm for accurate power level measurements.

### 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 power meter is 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 power meter.

### Quick-Charging

The TFS-301 Optical Power Meter is 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 unit features an emergency quick-charge mode that allows the user to charge the batteries in approximately 1 hour.

# TFS-301

## Optical Power Meter

### SPECIFICATIONS

<b>Detector</b>	Ge
<b>Port Style</b>	Universal Detector Receptacle
<b>Fiber Size (MAX)</b>	100/140
<b>Wavelength</b>	1310 nm, 1490 nm, 1550 nm, 1625 nm
<b>Range</b>	+3 to -60 dBm (1300 / 1550 nm) +8 to -55 dBm (850 / 780 nm)
<b>Display Resolution</b>	0.01 dB
<b>Accuracy</b>	±0.25 dB
<b>Operating Temperature</b>	0°C to +50°C
<b>Storage Temperature</b>	- 10°C to +60°C
<b>Humidity</b>	10% to 90%, non-condensing
<b>Power</b>	4 x AA NiMH or Alkaline Batteries, 120 VAC / 60 Hz
<b>Battery Life</b>	8-10 hours typical
<b>Charge Time</b>	Trickle Charge - 16 hours typical Quick Charge - 1 hour typical
<b>Physical Specification</b>	Size - 7" x 3.5" x 1.3" Weight - < 1lb.

### INCLUDES THE FOLLOWING:

Optical Power Meter  
AC to DC Adapter/Charger  
Four (4) "AA" NiMH Rechargeable Batteries  
Operation Manual on CD

### RELATED PRODUCTS:

TFS-201 Optical Light Source  
**P/N 2011386000**

TFS-401 Optical Loss Test Kit  
**P/N 2011388000**