

optical power meter

T-339 Series

Description

The T339 Optical Power Meter is available in three models, the T339-01B, T339-02 and the T339C. All units are designed to measure optical power of LEDs or laser diodes with their associated cables. However, the T339-02 enables extremely low level measurements with excellent accuracy. Measurements are made using patch cords. All models work well with either singlemode or multimode fibers.

Two cover options are available to equip either power meter with a light source. Choose from either a single source (850 nm) with the T355 cover option or a dual source (850 and 1300 nm) with the T363 option.

Measurements are made by mating the system connector or fiber to be tested to the RECEIVE port of the T339 Optical Power Meter. Interfacing problems have been eliminated by the use of universal adapters. The adapters permit direct connection of a variety of the commonly used connectors of several manufacturers. Bare fiber adapters are also available.

The T339 Optical Power Meter is powered by two readily available 9 volt batteries. The exclusive "Auto Off" feature extends the useful battery life and prevents accidental discharge of the batteries. Battery life is approximately 50 hours of continuous operation.

The test set is housed in a strong, lightweight metal case, built for long life under severe field operating conditions. The T339 comes equipped with a cover designed to store additional adapter caps.



Features and Benefits

- **Singlemode and Multimode Applications**
Time and cost savings with one power meter for multiple wavelengths. One test set for all your power and link loss testing.
- **60 dB of Dynamic Range (T-339-01B/C)**
65 dB of Dynamic Range (T-339-02)
A wide dynamic range that covers a variety of multimode and singlemode applications.
- **Rugged Metal Case**
The T-339 series of power meters are housed in a ruggedized hand held weather resistant metal case for durability.
- **Hand-Held, Battery Operated for Field Use**
Don't get stuck away from the truck with a dead meter; your batteries last longer, and our low battery enunciator is an early warning system that gives you plenty of time.
- **Auto Off**
Each unit includes the exclusive "Auto Off" feature which extends the useful battery life and prevents accidental discharge of the batteries
- **Single Button Operation**
Power on operation is provided by momentary single push button.

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Specifications

T339-01B

	850nm	1300nm	1550nm
Optical Measurement Range:	0 to -50 dBm	0 to -60 dBm	0 to -60 dBm
Accuracy (25°C*)	±0.3 dB (0 to -40 dBm)	±0.3 dB (0 to -40 dBm)	±0.3 dB (0 to -40 dBm)
Spectral response:	750 to 1800 nm		
Detector type:	Ge		
Resolution:	0.1 dB		

T339-02

	1300nm	1550nm
Optical Measurement Range:	0 to -65 dBm	0 to -65 dBm
Accuracy (25°C*)	±0.2dB (0 to -40dBm)	±0.2dB (0 to -40 dBm)
Spectral Response:	900 to 1650 nm	
Detector Type:	InGaAs	
Resolution:	0.1 dB	

T339C

	1300nm	1550nm
Optical Measurement Range:	+20 to -40 dBm	+20 to -40 dBm
Accuracy (25°C*)	±0.2 dB (+20 to -20 dBm)	±0.2 dB (+20 to 20 dBm)
Spectral Response:	900 to 1650 nm	
Detector Type:	Ge	
Resolution:	0.1 dB	

Accessories

The following connector adapters are available:

Power

Batteries:	Two 9-volt alkaline, type 522 or similar.
Battery Life:	Approximately 50 hours continuous operation.

Model #	Description
3011	Adapter for NEC D4 (OD9470) Connector
3013	Adapter for Biconic (Dorran) Connector
3013P	Adapter for Biconic (Plastic) Connector
3019	Adapter for FC Connector
3079	Adapter for AT&T ST

Environmental

Operating Temperature:	-10°C to +40°C
Storage Temperature:	-40°C to +60°C
Humidity:	10-90%, noncondensing
Altitude:	(Non-Operating) 15 kilometers
Temperature Stability:	Meets or exceeds TR-TSY-000198, Section 4.4.2.

Physical

Height:	6.00 in.	152 mm
Width:	3.50 in.	89 mm
Depth:	2.78 in.	71 mm
Weight:	1.1 lbs	0.5 kg

*Variation in level can occur due to connector orientation and may exceed 0.5 dB with certain connectors. With high quality optical connectors, repeatability of ±0.2 dB or better can be expected.

Ordering Information

T339-01B Optical Power Meter (850nm, 1300nm, 1550nm) CLEI Code TELWU701AA	30339036
T339-02 Optical Power Meter (1300nm and 1550nm) CLEI Code TELWU901AA	30339022
T339C Optical Power Meter (1300nm and 1550nm) CLEI Code pending	30339050
T363/T339-01B Combination Order connector adapters separately.	30363339

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