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Fiber Optic Wavelength Meter Modules



Key Features

- *Accurate wavelength measurements to ±15 ppm*
- *Direct fiber input or free-space light input via fiber adaptor*
- *Two versions cover 400–1650 nm wavelength range*
- *Calibration in the field to ensure measurement accuracy*
- *Available with FC/PC and FC/APC fiber connector styles*

Accessories

Metric Model	Description
U-1507	HeNe Laser for Module Calibration
U-FAS	HeNe Fiber Adaptor
F-WM-FA	Free-Space Input Adaptor
F-SMF-28-C-1FC	SM Fiber Patch Cord, 1m (for adaptor)

The PTS-FOWM Series Optical Wavelength Meter Modules are highly accurate wavelength meters, based on an internal scanning Michelson interferometer. With absolute accuracy to ±15 ppm, these modules are ideal for testing a variety of DWDM parameters, as well as long-term stability testing of laser diodes.

Two versions are available: 400–1100 nm for visible and 800–1650 nm for near IR light measurements.

The wavelength meter module accepts a direct fiber input, making it easy to use in fiber optic applications. Free-space laser beams can also be measured, with the help of an optional free-space to fiber coupling adaptor.

The module is factory calibrated to a HeNe transition line, providing the reference setting for wavelength measurements. Recalibration of the module can be performed in the field by injecting a fiber-coupled HeNe laser light source into the module input.

Specifications

Model[1]	SL	IG
Wavelength (nm)[1]	400–1100	800–1650
Absolute Accuracy (ppm)[1]	±15	
Wavelength Resolution (ppm)	15	
Display Resolution[2]	0.001 nm	
Measurement Update Rate (Hz)	2	
Module Type	Si	InGaAs
Power Input Range	10 µW–10 mW	
Detector Input	FC/PC or FC/APC	
Dimensions (H x W x D) [in. (cm)]	5.23 (13.3) x 1.39 (3.5) x 9.09 (23.1)	
Weight [lb (kg)]	1.75 (0.8)	
Operating Temperature	5°C to 40°C	
Storage Temperature	-20°C to 60°C	

1) ±0.0225 nm at 1500 nm, ±0.0195 nm at 1300 nm, ±0.015 nm at 1000 nm, ±0.009 nm at 600 nm
2) Resolution 0.01 nm for wavelengths >1000 nm. If the input signal is of low quality, only four (4) significant digits will be displayed

Ordering Information

When ordering a Fiber Optic Wavelength Meter Module, please specify the following Model number:

PTS-FOWM-□□-□□

Wavelength Range: SL — 400–1100 nm; IG — 800–1650 nm

Connector Input Style: 45 – FC/PC; 55 – FC/APC

Order example: PTS-FOWM-SL-45

Fiber Optic Wavelength Meter Module operating in the 400–1100 nm wavelength range, with FC/PC connector input.

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