

OP510

Fiber Optic Power Meter

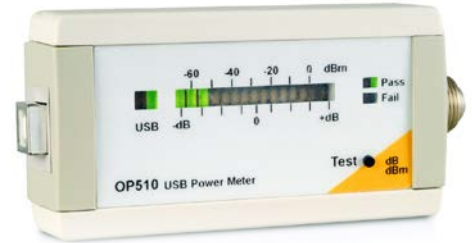
Overview Fiber Optic Power Meter Module

The **OP510** was designed as a cost effective solution for measuring, monitoring and logging of insertion loss or power fluctuations. The **OP510** is a small (4"x2"x1.25") portable module designed to minimize movement and bending of the reference and test cables. This results in stable, accurate and repeatable measurements.

A unique feature of the **OP510** is the 16 position bar graph. The display will show an approximate absolute power or relative power after referencing with the test button.

The **OP510** is offered with a choice of 1mm or 3mm InGaAs, 2mm High Power InGaAs, or 3mm Silicon detectors. It can be used with a universal adapter system or fixed optical interface to cover a wide variety of applications.

The USB-powered module connects directly to the computer. OptoTest provides drivers and applications that allow the user to perform common measurement tasks such as EXCEL compatible data logging or time-stamped stability measurements.



Model OP510 Fiber Optic Power Meter

Features

- Pass/Fail display with user-defined criteria
- Broad wavelength spectrum
 - InGaAs: 830nm to 1700nm
 - Silicon: 400nm to 1100nm
- Measurement range
 - InGaAs: +6dBm to -72dBm
 - Silicon: +3dBm to -65dBm
- Relative accuracy of 0.02dB*
- Measurement display resolution down to 0.001dB
- Variable sampling rate via software
- Integrated temperature monitoring eliminates the need for an additional temperature sensor during long term stability tests

* Loss less than 10dB

Applications

Stability and Long Term Loss Characteristic of Optical Components

Bundled with the **OPL-5** Optical Power Meter Software, the **OP510** is a cost-effective system for measuring the stability of passive fiber optic components and optical sources. The **OP510** measures and reports ambient temperature eliminating the need for an external monitor.

Production Testing of Connectors and Components

The **OP510** offers a cost effective solution in a production environment for insertion loss testing. The module offers a programmable Pass/Fail indicator showing the result of the IL measurement to the user instantly.



USB-powered and controlled