

# Optical Power Meter for Fiber Light Measurement



**OPM37LAN**

## OPM37LAN



Extension cord (2m)

### Introduction

This instrument is an optical power meter for short wavelength.

It uses a Si photodiode optical sensor and can be connected to a variety of optical connectors by using optional optical connector adapters.

Measuring functions include;

absolute value measurements including dBm and W measurements, and relative value measurements including dB (REL) and W (REL) measurements.

In addition to the basic measuring functions above, this meter also provides;

offset function, averaging function and direct read-out wavelength switching (650 nm, 780 nm, 800 nm, 850 nm and 880 nm).

The instrument is equipped with RS-232C interface for transferring measuring values to a PC.

### Standard Accessories

- Extension cord (2m) x 1pc.
- Optical sensor x 1pc.
- FC-type connector adapter x 1pc.
- AC adapter: AD30 x 1pc.
- 6LF22 (Alkaline 9V battery) x 1pc.
- Instruction manual x 1pc.

### Optional Accessories

- RS 232C cable: KB-RS-OPM x 1pc.
- SC-type optical connector adapter: OPA-F04 x 1pc.
- Simplex TOSLINK type optical connector adapter: OPA-F05 x 1pc.

\*Custom-made connectors are also available.

## Feature

- Full 4-digit display with dB m/W display unit switching
- Wide optical power measuring range from -60.00 dBm to +13.01 dBm/1.000 nW to 20.00 mW
- Sensitivity correction for 5 wavelengths (650, 780, 800, 850 and 880 nm)
- REL (Relative) value measurement of dB (REL) and W (REL)
- Data averaging for measuring fluctuating light
- FC-type optical connector adapter equipped and line of optional optical adapters (SC , simplex type of TOSLINK , etc.) available for various types of optical connectors
- Two-way power supply (6LF22 battery or special AC adapter)
- RS-232C interface for transfer of measuring data to a PC

## General Specification

Model	OPM37LAN
Display	4-digit digital (dB m/W)
Ranges	Automatic, 8 ranges
Optical sensor	Si photodiode (sensor surface area 5.8 x 5.8 mm)
Optical power measuring range	-60.00 dBm to +13.00 dBm. 1.000 nW to 20.00 mW.
Standard optical connector	FC-type
Calibrated wavelengths	650 nm, 780 nm, 800 nm, 850 nm, 880 nm
Accuracy	±5% (@ calibrated wavelength of -20 dBm/10 μW)
Resolution	dBm/dB (REL) mode: 0.01 dB W/W (REL) mode: 0.01% to 0.11%
Measuring cycle	3.33 times/sec.
Functions	dBm, dB (REL), W and W (REL) display, direct read-out waveform switching, offsetting, data averaging (20-data sequential averaging), low battery voltage indication, RS 232C output (using optional RS 232C connection cable)
Power supply	6LF22 (Alkaline 9V battery) or AC adapter(AD-30)
Environmental conditions	Temperature: 0 to 40°C (32 to 104°F) Humidity: No more than 80%RH (without condensation)
Dimensions	Main body: 164 x 85 x 35 mm Sensor: 25 dia. x 26 mm
Weight	Main body: 300 grams Sensor: 25 grams