

Optical Laser Power Meter for Space Light Measurement

**OPM35S**

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Optical sensor (stick type)

Introduction

This instrument is a laser power meter for space light measurement.

It uses a Si photodiode optical sensor and can measure optical power up to 50.00 mW.

Measuring functions include W measurement, W (REL) relative value measurement, MAX HOLD, data averaging, direct read-out wavelength switching (488 nm, 633 nm, 670 nm, 780 nm and 830 nm).

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

Standard Accessories

- AC adapter: AD30 x 1pc.
- Optical sensor (stick type) x 1 pc.
- 6LF22 (Alkaline 9V battery) x 1pc.
- Instruction manual x 1pc.

Optional Accessories

- RS232C cable: KB-RS-OPM x 1pc.

Feature

- Full 4-digit display and direct reading from 0.001 μ W to 50.00 mW
- Sensitivity correction for 5 wavelengths (488, 633, 670, 780 and 850 nm)
- MAX HOLD for holding the maximum power value
- REL (Relative) measurement for canceling the ambient light before measurement
- Data averaging for measuring fluctuating light.
- 10 x 10 mm Si photodiode sensor
- Two-way power supply (6LF22 battery or special AC adapter)
- RS-232C interface for transfer of measuring data to a PC

General Specification

Model	OPM35S
Display	4-digit digital
Ranges	Automatic, 6 ranges
Optical sensor	Si photodiode (sensor surface area 10 x 10 mm)
Optical power measuring range	0.001 μ W to 50.00 mW.
Optical input type	Direct to photodiode
Calibrated wavelengths	488 nm, 633 nm, 670 nm, 780 nm, 830 nm
Accuracy	\pm 5% (@ calibrated wavelength of 100 μ W)
Resolution	W/REL mode: 0.01% to 0.11%
Measuring cycle	3.33 times/sec.
Functions	W and W REL display, direct read-out wavelength switching, MAX HOLD, 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: 126 x 15 x 4 mm
Weight	Main body: 270 grams Sensor: 40 grams