

High-Sensitivity Optical Power Sensors

10 nW to 50 mW, CW



Model OP-2/LM-2

Features

- Si, Ge photodiodes
- Spectral range: 250 nm to 1800 nm
- Fiber-optic connector (optional, see page 55)
- 1000:1 attenuator for measurement to 5W (optional, see page 54)

These high-sensitivity semiconductor sensors are ideal for CW laser measurements in the nW to low mW level. They typically saturate in the 10 to 50 mW level, depending upon the model. For linear operation up to a maximum of 5 Watts, an optional 1000:1 attenuator is used. Light shield is removable.

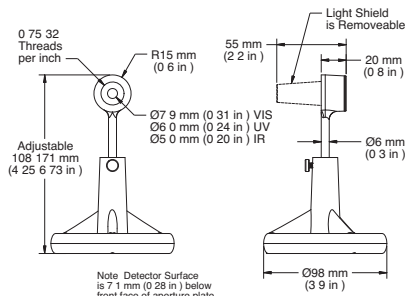
OP-2 models are compatible with FieldMate, FieldMaxII and LabMax meters. LM-2 models are directly compatible with LabMax meters.

Device Specifications	Model	OP-2/LM-2 UV	OP-2/LM-2 VIS	OP-2/LM-2 IR
Detector Material		Silicon		Germanium
Wavelength Range (µm)		0.25 to 0.4	0.4 to 1.06	0.8 to 1.80/0.8 to 1.5 ¹
Power Range		10 nW to 30 mW	10 nW to 30 mW ²	10 nW to 10 mW
Resolution (nW)		1		
Max. Power Density		0.3 W/cm ²	1.0 W/cm ²	0.5 W/cm ²
Active Area Diameter (mm)		6	7.9	5
Calibration Uncertainty (%) (k=2)		±8	±5	±4.5
Calibration Wavelength (nm)		Monochromator calibration across wavelength range		
Cooling Method		Air-cooled		
Connector Type		OP DB-25/LM DB-25		
Cable Length (m)		1.8		
Part Number				
	OP-2	1098401	1098313	1098416
	LM-2	1098390	1098298	1098342

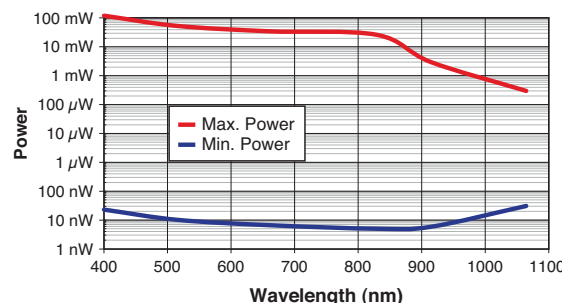
¹ OP-2 IR and LM-2 IR have different spectral ranges.

² Power range is wavelength dependent. See chart below.

OP-2 UV/OP-2 VIS/OP-2 IR
LM-2 UV/LM-2 VIS/LM-2 IR



Measurable Power vs. Wavelength
OP-2 VIS and LM-2 VIS



Accessories



1000:1 Attenuator



Fiber-Optic Connector Adapters

POWER & ENERGY

Power & Energy Meters

USB/RS Power Sensors

DB-25 Power Sensors

USB/RS Energy Sensors

DB-25 Energy Sensors

Custom & OEM

BEAM DIAGNOSTICS

CALIBRATION & SERVICE

Laser Cross-Reference Index

Model Name Index