PM130 Series Slim Sensor Optical Power Meters

The PM130 Series uses our ultra-slim sensors, which are designed for setups where space is critical. Measuring only 0.75" x 0.2" at the photodiode location, the ultra slim sensor fits where most sensors cannot. Available with Si or Ge detectors, they cover a wavelength range of 400-1800nm and power range of 5nW to 5mW. The built in sliding ND filter extends the power range to a maximum of 500mW. The filter position is automatically detected by the console.

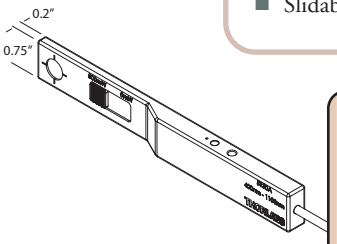
Sensor Specifications

- **Aperture:** Ø9.5mm
- **Dimensions:** 150 x 19 x 10mm; (5.91" x 0.75" x 0.39")
- **Power Resolution:** 0.1nW
- **Max Power Density (CW):** 10W/cm^2 (50W/cm^2 With ND Filter)
- **Measurement Standard:** NIST Traceable
- **Accuracy:** ±5%
- **ND Value:** (1/100)
- **Distance to Detector:** 3.3mm (0.13")
- **Distance to ND Filter:** 1.2mm (0.047")
- **Weight:** 200g (With Connector)
- **Operating Temperature:** 5°C to 40°C
- **Storage Temperature:** -20°C to 70°C

See Page 958 for Sensor Specifications

Sensor Features

- Slim Design Fits Into Tight Spaces
- Large Aperture
- Two Detector Versions: Si and Ge
- Slidable ND Filter Included



Two Wavelength Ranges Available

PM130	Silicon Sensor, 400 to 1100nm, 5nW-500mW
PM132	Germanium Sensor, 700 to 1800nm, 5nW-500mW

ITEM#	$	£	€	RMB	DESCRIPTION
PM130	$ 1,170.00	£ 737.10	€ 1.088,10	¥ 11,173.50	Digital Power Meter with Slim Sensor, 400-1100nm, 5nW-500mW
PM132	$ 1,370.00	£ 863.10	€ 1.274,10	¥ 13,083.50	Digital Power Meter with Slim Sensor, 700-1800nm, 5nW-500mW
CAL-S130	$ 155.00	£ 97.70	€ 144,20	¥ 1,480.30	Calibration Service for PM130 - Recommended After 12 Months
CAL-S132	$ 165.00	£ 104.00	€ 153,50	¥ 1,575.80	Calibration Service for PM132 - Recommended After 12 Months

PM140 Series Integrating Sphere Power Meters

The PM140 Series incorporates our Integrating Sphere Sensors to enable precise measurements widely independent of beam shape and entrance angle. It is especially useful for measuring highly divergent beams leaving optical fibers or beams with higher power. The sensors are available for a wavelength range of 400-1700nm and for a power range of 1µW to 1W.

The unit is supplied with an FC fiber adapter. Most industry standard fiber adapters including FC, ST, SC, bare fiber, and SMA (see page 959), are available as accessories and can be easily installed. Two sets of #8-32 and M4 threaded mounting holes allow mounting into our standard post and post holders.

Sensor Features

- Integrating Sphere-Based Power Measurements
- Fiber and Free-Space Measurements
- NIST Traceable Calibration
- Damage Threshold: 200W/cm^2
- Dimensions: 30.5mm x Ø45mm

See Page 959 for Sensor Specifications

Two Wavelength Ranges Available

PM140	Silicon Sensor, 400 to 1100nm, 1µW-1W
PM144	InGaAs Sensor, 800 to 1700nm, 1µW-1W

Post and Holder Not Included

ITEM#	$	£	€	RMB	DESCRIPTION
PM140	$ 1,425.00	£ 897.80	€ 1.325,30	¥ 13,608.80	Digital Power Meter w/Integrating Sphere, 400-1100nm, 1µW-1W
PM144	$ 1,525.00	£ 960.80	€ 1.418,30	¥ 14,563.80	Digital Power Meter w/Integrating Sphere, 800-1700nm, 1µW-1W
CAL-S140	$ 150.00	£ 94.50	€ 139,50	¥ 1,432.50	Calibration Service for PM140 - Recommended After 12 Months
CAL-S144	$ 160.00	£ 100.80	€ 148,80	¥ 1,528.00	Calibration Service for PM144 - Recommended After 12 Months

* Thorlabs recommends recalibrating power meter sensors once a year. For more detail, call Thorlabs customer service and reference the CAL service. Universal design, imperial, and metric compatible.