

## PM30 Series High Sensitivity, Analog/Digital Optical Power Meters

Detectors

Power Meters

CCD Cameras

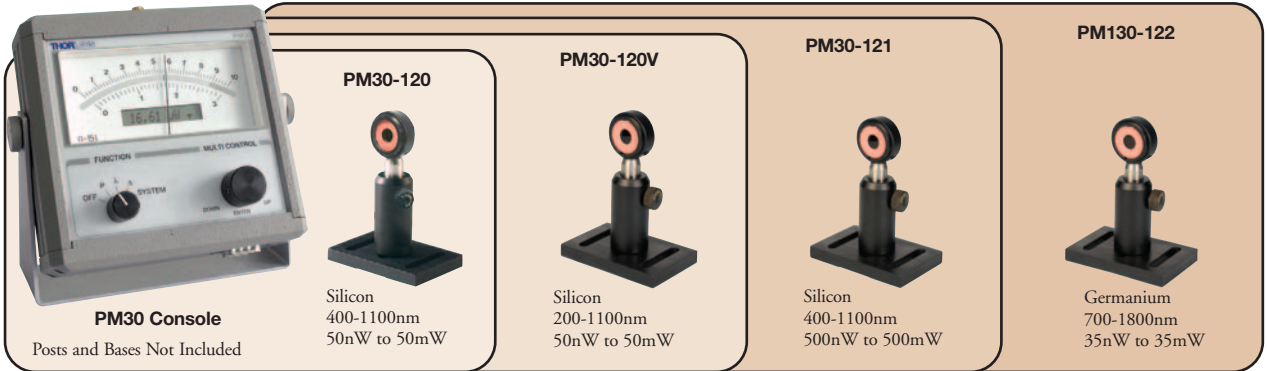
Optical Chopper

Beam Profilers & Extensions Sets

Spectrometers

Temperature Controller & Shutter

Filter Wheels



The PM30 Series Power Meter is ideal for applications that require real time optimization. These power meters feature a combined analog and digital display. The analog meter is large and easy to read, and the fine analog needle provides enhanced sensitivity when aligning systems for maximum efficiency. The digital display offers better absolute accuracy than can be achieved with a purely analog meter. This portable and robust unit has an analog output and a built-in RS-232 interface. See page 951 for a USB to RS-232 converter cable.

### Photodiode Sensors

The PM30 Series Power Meters are available with a variety of photodiode sensor heads: conventional Si and Ge sensors, as well as all slim sensors and integrating sphere sensors covering a combined spectral range of 200 to 1800nm and a power range of 5nW to 1W. The applicable range for the measurement depends on the wavelength and power range of the connected sensor head. Each sensor head is individually calibrated with calibration and identification data stored in a non-volatile memory inside the connector. The console immediately recognizes the sensor and downloads the appropriate sensor and calibration information.

**All photodiode sensors are equipped with an IR target disk for easy sensor alignment in the IR spectral range.**

### ALL PHOTODIODE SENSORS

#### General Console Specifications

- **Power Scales:** 15 Ranges, Sensor Dependent: 100nW, 300nW, 1µW, 3µW, 10µW, 30µW, 100µW, 300µW, 1mW, 3mW, 10mW, 30mW, 100mW, 0.3W, and 1W
- **Analog Display:** 42mm Mirrored Scales: 0 to 3 (30 Divisions), 0 to 10 (50 Divisions)
- **Digital Display:** 12-Digit Display With LED Backlight
- **Display Format:** 4-Digit Power Read Out
- **Power Units:** nW, µW, mW, and W
- **Accuracy:** Analog Meter ±3%; Digital Display ±1%, Analog Out ±1%
- **Resolution:** 1nW (14 bit)

#### Data Acquisition

- **Sample Rate:** Analog Display: 12Hz  
Digital Display: 3Hz
- **Connector:** DB9 Sensor Female Connector

#### Digital Output

- **PC Communication:** RS-232, DB9 Male Connector
- **Baud Rate:** 9600bps

#### Analog Output

- **Voltage Range:** 0 - 1V Full Scale
- **Resolution:** 0.1% Full Scale
- **Sample Rate:** 12Hz
- **Power Range:** Range Dependent
- **Connector:** SMA Analog Out

#### Power Management

- **Battery Operation:** 6V, 150mAh Chargeable NiMH Battery
- **Operating Time:** Up to 50 hours (w/o Backlight)
- **Shutdown:** Manual /Auto, Time Settable
- **Charger:** 3 Hour Battery Charger Included
- **Charger Power Supply:** Input: 85 - 265VAC, 50 - 60Hz; Output: 12VDC @ 1.1A

#### General Specifications

- **Dimensions (H x W x D):**  
125 x 145 x 46mm (With Stand)

See page 958 for sensor specifications.

ITEM#	\$	£	€	RMB	DESCRIPTION
PM30-120	\$ 825.00	£ 519.80	€ 767,30	¥ 7,878.80	Analog Power Meter, 400-1100nm, 50nW-50mW
PM30-120V	\$ 950.00	£ 598.50	€ 883,50	¥ 9,072.50	Analog Power Meter, 200-1100nm, 50nW-50mW
PM30-121	\$ 847.50	£ 533.90	€ 788,20	¥ 8,093.60	Analog Power Meter, 400-1100nm, 500nW-500mW
PM30-122	\$ 1,090.00	£ 686.70	€ 1,013,70	¥ 10,409.50	Analog Power Meter, 700-1800nm, 35nW-35mW