

## PM50 Series High-Power Analog Optical Power Meters

The PM50 Analog Power Meter Series provides an ideal solution for making power measurements within a densely populated fully assembled optical system. The power meter is compact, robust, and has a large, easy-to-read mirrored analog display with a convenient, intuitive user interface. The PM50 series power meters utilize one of three models of thermal sensor heads, each with a wavelength range of 250nm to 10.6µm. There are three power ranges to choose from as detailed below. All sensor heads are available separately, allowing the system to adapt as your needs change (see page 960). The console is backward compatible with all of the the S200 series thermal heads.

**PM50-30**  
100mW - 30W  
250nm to 10.6µm



Posts and Bases  
Not Included

**PM50-10**  
20mW - 10W  
250nm to 10.6µm



**PM50-3**  
20mW - 3W  
250nm to 10.6µm



PM50 Console

### Console Features

- Large Mirrored Analog Needle Display
- Fast Response
- Automatic Sensor Detection
- Analog Output
- NIST Traceable Calibration
- Rechargeable Battery
- Rugged Enclosure
- Pivoting Stand
- 250nm to 10.6µm

### General Console Specifications

- **Detector Compatibility:** S200 Series Thermal Sensors
- **Nine Power Ranges:** 0.01W, 0.03W, 0.1W, 0.3W, 1W, 3W, 10W, 30W, 100W
- **Analog Display:** 90 x 42mm (3.54" x 1.65") Mirrored Scales: 0-3 (30 Divisions), 0-10 (50 Divisions)
- **Power Units:** Watts
- **Accuracy:** ±3%
- **Front Panel Operating Elements:** Range Selector (Rotary Switch), Zero Adjuster, On Button, Low-Battery Indicator

### Data Acquisition

- **Sample Rate:** 12Hz
- **Connector:** DB9 Sensor Female Connector

### Analog Output

- **Voltage Range:** 0-1V Full Scale
- **Sample Rate:** 12Hz
- **Connector:** SMA Analog Out

### Power Management

- **Battery Operation:** 6V, 150mAh Internal Chargeable NiMH Battery
- **Operating Time:** 100+ Hours
- **Shutdown:** Manual/Auto, 6min
- **Charger:** 3 Hours Battery Charger Included
- **Charger Power Supply:** In: 85-265VAC, 50-60Hz  
Out: 12VDC @ 1.1A

### General Specifications

- **Dimensions (H x W x D):** 125 x 145 x 46 mm (with Stand)
- **Weight:** 0.6kg
- **Operating Temperature:** 5°C to 40°C
- **Storage Temperature:** -20°C to 70°C

See page 960 for sensor specifications.

| ITEM#   | \$          | £        | €          | RMB         | DESCRIPTION                                 |
|---------|-------------|----------|------------|-------------|---|
| PM50-3  | \$ 1,143.00 | £ 720.10 | € 1,063.00 | ¥ 10,915.70 | Analog Power Meter, 250nm-10.6µm, 20mW-3W   |
| PM50-10 | \$ 1,214.00 | £ 764.80 | € 1,129.00 | ¥ 11,593.70 | Analog Power Meter, 250nm-10.6µm, 20mW-10W  |
| PM50-30 | \$ 1,307.00 | £ 823.40 | € 1,215.50 | ¥ 12,481.90 | Analog Power Meter, 250nm-10.6µm, 100mW-30W |