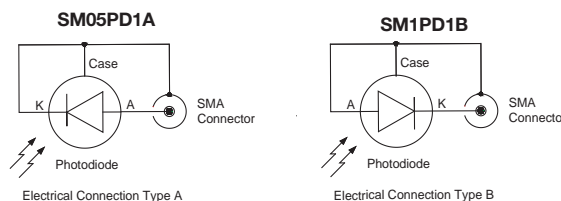


## Mounted Photodiodes with SM05 or SM1 Threads

The SM05PD and SM1PD series of photodiodes consist of InGaAs, Ge, Si, or GaP photodiodes mounted in convenient housings with external SM05 or SM1 threading. The electrical output of the sensor is through a standard SMA connector (SM05PD) or BNC connector (SM1PD) mounted directly to the housing for quick connection to the measuring circuit. The photodiodes come in either a type A (cathode grounded) or type B (anode grounded) electrical configuration and are compatible with all Thorlabs SM05 (Ø0.535"-40) and SM1 (Ø1.035"-40) mounting adapters.



Please refer to our website for complete models and drawings.

ITEM#	\$	£	€	RMB	DESCRIPTION
SM05PD1A	\$ 50.00	£ 34.70	€ 44,40	¥ 422.30	Si Detector, FDS100, 350-1100 nm, Type A
SM05PD1B	\$ 50.00	£ 34.70	€ 44,40	¥ 422.30	Si Detector, FDS100, 350-1100 nm, Type B
SM05PD2A	\$ 81.20	£ 56.30	€ 72,10	¥ 685.70	Si Detector, FDS010, 200-1100 nm, Type A
SM05PD2B	\$ 81.20	£ 56.30	€ 72,10	¥ 685.70	Si Detector, FDS010, 200-1100 nm, Type B
SM05PD4A	\$ 206.10	£ 142.90	€ 183,00	¥ 1,740.40	InGaAs Detector, FGA10, 700-1800 nm, Type A
SM05PD5A	\$ 279.90	£ 194.10	€ 248,50	¥ 2,363.50	InGaAs Detector, FGA21, 800-1800 nm, Type A
SM05PD6A	\$ 168.30	£ 116.70	€ 149,50	¥ 1,421.20	Ge Detector, 0.8 MHz BW, 800-1800 nm, Type A
SM05PD7A	\$ 126.50	£ 87.70	€ 112,40	¥ 1,068.20	GaP Detector, FGAP71, 150-550 nm, Type A
SM1PD1A	\$ 117.30	£ 81.40	€ 104,20	¥ 990.50	Si Detector, FDS1010, 400-1100 nm, Type A
SM1PD1B	\$ 117.30	£ 81.40	€ 104,20	¥ 990.50	Si Detector, FDS1010, 400-1100 nm, Type B
SM1PD2A	\$ 201.96	£ 140.10	€ 179,40	¥ 1,705.40	Si Detector, FDS010, 200-1100 nm, Type A
SM1PD5A	\$ 505.92	£ 350.80	€ 449,20	¥ 4,272.00	Ge Detector, FDG1010, 800-1800 nm, Type A

## Benchtop Photodiode Amplifier



PDA200C

- Transimpedance Photocurrent Amplifier
- Extremely Low Noise Operation Over Entire Dynamic Range of 100 pA to 20 mA
- 5-Digit Display with 10 pA Resolution
- Supports Single-Point Power Calibration
- Supports Both Diode Polarities (CG and AG)
- Offset Compensation of the Photocurrent and Dark Current

The PDA200C Photocurrent Amplifier is ideally suited for ultralow noise amplification of very small photodiode currents. It offers five current ranges from 100 nA to 10 mA full scale. The unit supports either cathode grounded (CG) or anode grounded (AG) photodiodes. The adjustable bias voltage allows for an improvement in the linearity of the responsivity and frequency response.

### Parameters

- Current Measurement Range: 100 nA to 10 mA
- Polarity of the Photodiode: Anode Grounded (AG) or Cathode Grounded (CG)
- Display Range: 0 to 10,000 (CG), 0 to -10,000 (AG)
- Bias Voltage: 0 to 10 V (AG), 0 to -10 V (CG)
- Photodiode Sensitivity (Power Display): 0.05-2 A/W
- Temperature Coefficient: <50 ppm/°C
- Input Impedance: ≈0 Ω (Virtual Ground)
- Noise (rms): 0.02% Full Scale
- Output Voltage (CTRL Output): 0 to 10 V (CG), 0 to -10 V (AG)
- Mains Voltage: 100 V, 115 V, 230 V (-10%, +15%) (Selectable)
- Mains Frequency: 50-60 Hz
- Operating Temperature: 0-40 °C



Back Panel

MEASUREMENT RANGE	RESOLUTION	AMPLIFICATION	ACCURACY	BANDWIDTH
10 mA	1 μA	1 x 10 <sup>3</sup> V/A	±0.05% fs	500 kHz
1 mA	100 nA	1 x 10 <sup>4</sup> V/A	±0.05% fs	250 kHz
100 μA	10 nA	1 x 10 <sup>5</sup> V/A	±0.05% fs	70 kHz
10 μA	1 nA	1 x 10 <sup>6</sup> V/A	±0.05% fs	20 kHz
1 μA	100 pA	1 x 10 <sup>7</sup> V/A	±0.05% fs	5 kHz
100 nA	10 pA	1 x 10 <sup>8</sup> V/A	±0.1% fs	1 kHz

ITEM#	\$	£	€	RMB	DESCRIPTION
PDA200C	\$ 828.00	£ 574.00	€ 735,20	¥ 6,991.70	Benchtop Photodiode Amplifier