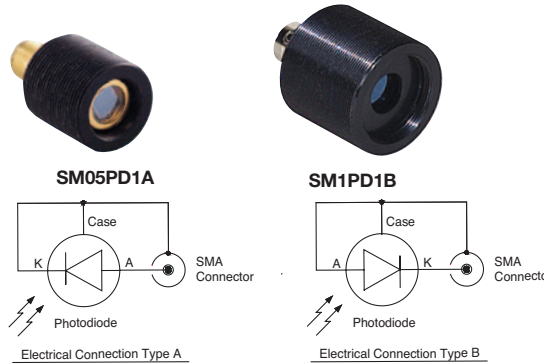


## Mounted Photodiodes With SM05 and SM1 Threads

The SM05PD and SM1PD series of photodiodes consists of InGaAs, Ge, Si, or GaP photodiodes mounted in convenient SM05 series or SM1 series threaded housings. 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 configurations and are compatible with all Thorlabs' SM05 (0.535"-40) and SM1 (1.035"-40) mounting adapters.



ITEM#	\$	£	€	RMB	DESCRIPTION
SM05PD1A	\$ 49.00	£ 30.90	€ 45,60	¥ 468.00	Si Detector, FDS100, 350-1100nm, Type A
SM05PD1B	\$ 49.00	£ 30.90	€ 45,60	¥ 468.00	Si Detector, FDS100, 350-1100nm, Type B
SM05PD2A	\$ 79.60	£ 50.10	€ 74,00	¥ 760.20	Si Detector, FDS010, 200-1100nm, Type A
SM05PD2B	\$ 79.60	£ 50.10	€ 74,00	¥ 760.20	Si Detector, FDS010, 200-1100nm, Type B
SM05PD4A	\$ 202.00	£ 127.30	€ 187,90	¥ 1,929.10	InGaAs Detector, FGA10, 800-1800nm, Type A
SM05PD4B	\$ 202.00	£ 127.30	€ 187,90	¥ 1,929.10	InGaAs Detector, FGA10, 800-1800nm, Type B
SM05PD5A	\$ 274.40	£ 172.90	€ 255,20	¥ 2,620.50	InGaAs Detector, FGA21, 800-1800nm, Type A
SM05PD5B	\$ 274.40	£ 172.90	€ 255,20	¥ 2,620.50	InGaAs Detector, FGA21, 800-1800nm, Type B
SM05PD6A	\$ 165.00	£ 104.00	€ 153,50	¥ 1,575.80	Detector, 0.8MHz BW, 800-1800nm, Type A
SM05PD7A	\$ 124.00	£ 78.10	€ 115,30	¥ 1,184.20	GaP Detector, FGAP71, 150-550nm, Type A
SM05PD7B	\$ 124.00	£ 78.10	€ 115,30	¥ 1,184.20	GaP Detector, FGAP71, 150-550nm, Type B
SM1PD1A	\$ 115.00	£ 72.50	€ 107,00	¥ 1,098.30	Si Detector, FDS1010, 350-1100nm, Type A
SM1PD1B	\$ 115.00	£ 72.50	€ 107,00	¥ 1,098.30	Si Detector, FDS1010, 350-1100nm, Type B
SM1PD2A	\$ 198.00	£ 124.70	€ 184,10	¥ 1,898.90	Si Detector, 200-1100nm, Type A
SM1PD2B	\$ 198.00	£ 124.70	€ 184,10	¥ 1,898.90	Si Detector, 200-1100nm, Type B
SM1PD5A	\$ 496.00	£ 312.50	€ 461,30	¥ 4,736.80	Detector, FDG1010, 800-1800nm, Type A
SM1PD5B	\$ 496.00	£ 312.50	€ 461,30	¥ 4,736.80	Detector, FDG1010, 800-1800nm, Type B

## Benchtop Photodiode Amplifier



PDA200C

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

The Photocurrent Amplifier PDA200 is ideally suited for ultralow noise amplification of very small photodiode currents. It offers five current ranges from 100nA to 10mA full scale. The unit supports either cathode grounded (CG) or anode grounded (AG) photodiodes. The adjustable biased voltage allows improvement of the linearity of the responsivity and the frequency response.

### Parameters

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



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

ITEM#	\$	£	€	RMB	CONFIGURATION
PDA200C	\$ 828.00	£ 521.60	€ 770.00	¥ 7,907.40	Benchtop Photodiode Amplifier