

## C-Series of Slim Photodiode Power Sensors



**S130C**  
(Post Not Included)

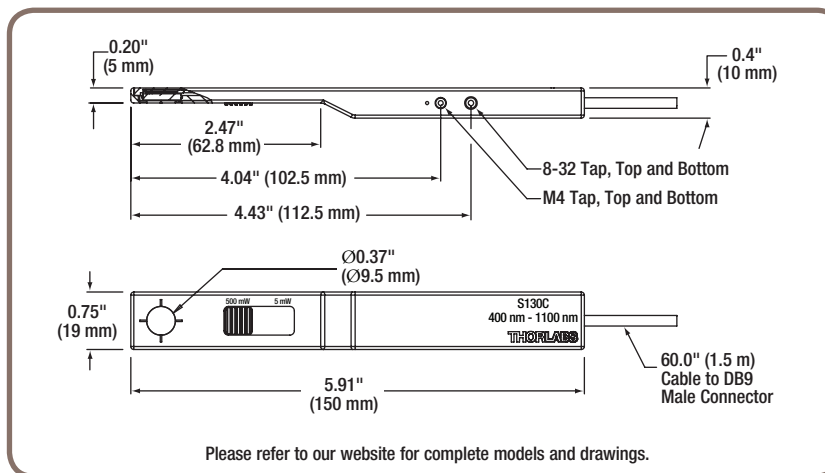
### Features

- **Calibration Wavelength Ranges:**  
400 – 1100 nm, 200 – 1100 nm, and  
700 – 1800 nm
- Powers from 500 pW to 500 mW
- Slim Design is Only 5 mm Thick at Sensor
- Compatible with all C-Series Power Meters
- NIST-Traceable Data Stored in Sensor Connector

Thorlabs' slim, free-space photodiode sensors are only 5 mm thick at the sensor. They are ideal for power measurements when space is an issue. Each sensor has a sliding ND filter, which enables higher power measurements. When the ND filter is slid into position, our power meters automatically detect the filter and compensate for attenuation. For accurate measurements, we recommend recalibrating sensors annually. See the price box below for details on our recalibration services.

### C-Series Connectors

Thorlabs' C-Series sensors use our red DB9 connectors, which provide better data transmission (via internal chip) to our meters than our previous sensors. These connectors, which firmly connect to a meter without threading screws, allow for quick sensor exchanges and are compatible with our complete line of C-Series power meters featured on pages XXX – XXX.



ITEM #	S130C	S130VC	S132C
Wavelength Range	400 – 1100 nm	200 – 1100 nm	700 – 1800 nm
Optical Power Range	500 pW – 5 mW Up to 500 mW <sup>a</sup>	500 pW – 0.5 mW <sup>b</sup> Up to 50 mW <sup>a, b</sup>	5 nW – 5 mW Up to 500 mW <sup>a</sup>
Average Power Density (Max)	20 W/cm <sup>2</sup>		10 W/cm <sup>2</sup>
Detector Type	Si Photodiode		Ge Photodiode
Recalibration Service	CAL-S130		CAL-S132
Sliding ND Filter <sup>b</sup>	Reflective ND (OD2)	Reflective ND (OD1.5)	Absorptive ND (Schott NG9/KG <sup>3</sup> )
Resolution <sup>c</sup>	100 pW <sup>a</sup>		1 nW <sup>a</sup>
Measurement Uncertainty	±3% (451 – 1000 nm), ±5% (Over Rest of Range)		±5%
Response Time	<1 μs		
Aperture	Ø9.5 mm		
Cable Length	1.5 m		
Mounting	8-32 and M4 Threaded Holes		
Lens Tube Compatibility	N/A		
Cage Compatibility	N/A		
Console Compatibility <sup>d</sup>	PM200, PM100D, PM100A, PM100USB, PM320E, and Future C-Series Power Meters		

<sup>a</sup>Valid when the sliding ND filter is in front of the sensor.

<sup>b</sup>Valid for devices with serial numbers of 1203xxx or higher. Previous versions had Absorptive ND (Schott NG9) for the S130C, Reflective ND (OD1) for the S130VC, and Absorptive ND (Schott NG9) for the S132C. Older versions of the S130VC had an optical power range of 5 nW to 5mW (50 nW to 50 mW with filter)

<sup>c</sup>Measured with PM100D console in low bandwidth setting.

<sup>d</sup>Not backwards compatible.

Have you seen our...

Compatible Power  
Meters



See pages XXX – XXX

ITEM #	\$	£	€	RMB	DESCRIPTION
S130C	\$ 475.00	£ 342.00	€ 413,25	¥ 3,785.75	C-Series Slim Power Sensor, 400 – 1100 nm, 500 pW – 500 mW
S130VC	\$ 575.00	£ 414.00	€ 500,25	¥ 4,582.75	C-Series Slim Power Sensor, 200 – 1100 nm, 500 pW – 50 mW
S132C	\$ 675.00	£ 486.00	€ 587,25	¥ 5,379.75	C-Series Slim Power Sensor, 700 – 1800 nm, 5 nW – 500 mW
CAL-S130	\$ 155.00	£ 111.60	€ 134,85	¥ 1,235.35	Si Recalibration Service (S130C, S130VC, or PM160)
CAL-S132	\$ 165.00	£ 118.80	€ 143,55	¥ 1,315.05	Ge Recalibration Service (S132C)