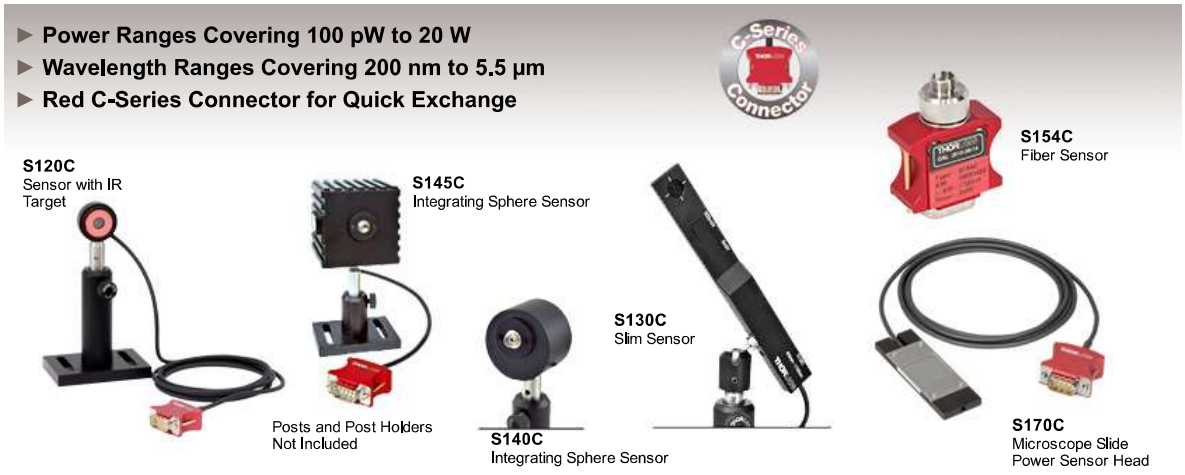
Photodiode Power Sensors (C-Series)

- Power Ranges Covering 100 pW to 20 W
- Wavelength Ranges Covering 200 nm to 5.5 µm
- Red C-Series Connector for Quick Exchange



Related Items

Other Power Meter Sensors

Self-Contained Sensor and Power Meter

Touch Screen Power and Energy Meter

Slit Beam Profiler

Overview | Specs | Pin Diagram | Sensor Selection | Console Selection | Feedback

Features

- Fast Response Time and High Resolution
- C-Series Connector Design for Quick Sensor Connection
- Over-Temperature Alert Sensor (Except S130 Series and S170C Microscope Slide Sensor)
- Individually Calibrated with NIST- and PTB-Traceable Certificate of Calibration Plus Embedded Calibration Curve and Sensor Settings

Thorlabs' C-Series Photodiode Power Meter Sensors cover a wide power and wavelength range. These sensors are offered in standard, slim, microscope slide, integrating sphere, and compact fiber versions to meet your specific application requirements. They are the best sensor choice when a fast response time or high resolution is required and there is not a need for a flat spectral response.

These photodiode power meter sensors feature enhanced shielding to avoid electromagnetic interference as well as an over-temperature alert sensor to warn against damage and measurement errors due to overheating of the sensor (except the S130C Series Slim Sensors and the S170C Microscope Slide Sensor). For all sensors (except the S130C Slim Sensors and the S170C Microscope Slide Sensor), a set of fiber adapters is available to connect them to standard optical fiber patch cables (see below). Other fiber adapter types are available upon request.

The sensors have 8-32 or M4 mounting holes for mounting to Ø1/2" Posts. Posts and post holders are not included and sold separately.

Compatibility
The Photodiode Sensors presented here are compatible with C-Series power meter consoles including the PM200, PM100D, PM100A, PM320E, and PM100USB. The S150C Series Fiber Sensors are integrated into the connector itself and directly plugged into the console.

Calibration
Each sensor head is individually calibrated and is shipped with a NIST and PTB Traceable Calibration Certificate. The calibration and identification data is stored in the connector of the sensor and is downloaded automatically to the connected power meter console.

Thorlabs offers specific recalibration services for all our photodiode power sensors. To ensure accurate measurements, we recommend recalibrating the sensors annually. Please contact our tech support team for recalibration information and pricing. We also offer expedited sensor calibration.

Sensor Upgrade Service
All C-Series Sensors are incompatible with old power meter consoles with non-C-Series connectors. We offer a sensor upgrade service if you want to use your existing sensors with a new power meter console with C-Series connector. Note: upgraded sensors will be incompatible with old power meter consoles with non-C-Series connectors. Please contact our tech support team for details.

Photodiode Sensor Selection Guide

Housing Type	Standard	Slim	Microscope Slide	Integrating Sphere	Fiber Coupled
Power Range	50 nW - 500 mW	500 pW - 500 mW	10 nW - 150 mW	1 µW - 20 W	100 pW - 20 mW
Wavelength Range	200 - 1800 nm	200 - 1800 nm	350 - 1100 nm	350 - 5500 nm	350 - 1700 nm
Typical Application	General Measurement	Tight Places	Microscope Alignment and Calibration	Divergent Beams	Fiber
Fiber Adapters Available	Yes	Yes	No	Yes	Yes

Standard Photodiode Power Sensors

For General Purpose Optical Power Measurements
Integrated Viewing Target for Easy Sensor Alignment
Ø9.5 mm Sensor Aperture
Compatible Fiber Adapters: S120-xx Series
Compatible with the PM200, PM100D, PM100USB, PM100A, and PM320E Consoles
Sensor, Protective Cap, IR Target, and Thread Adapter Included

Click to Enlarge
S120C and CP90F Quick-Release Mount

The S12xC Standard Photodiode Power Sensors are ideal for metering low power coherent and incoherent sources from the UV to the NIR. The NIST-Traceable, calibrated sensors feature an integrated viewing target for easy alignment, enhanced shielding against electromagnetic interference, over temperature alert device, and large Ø9.5 mm sensor aperture. The sensors are compatible with 30 mm cage systems, Ø1/2" posts, and SM1 (1.035"-40) lens tubes, and are ideal for free-space and fiber-coupled sources.

Item #	S120VC	S120C	S121C	S122C

Sensor Image (Click the Image to Enlarge)				
Aperture Size	Ø9.5 mm			
Wavelength Range	200 - 1100 nm	400 - 1100 nm	400 - 1100 nm	700 - 1800 nm
Power Range	50 nW - 50 mW		500 nW - 500 mW	50 nW - 40 mW
Detector Type	Si Photodiode (UV Extended)	Si Photodiode		Ge Photodiode
Linearity	±0.5%			
Resolution[a]	1 nW		10 nW	2 nW
Measurement Uncertainty[b]	±3% (440 - 980 nm) ±5% (280 - 439 nm) ±7% (200 - 279 nm, 981 - 1100 nm)	±3% (440 - 980 nm) ±5% (400 - 439 nm) ±7% (981 - 1100 nm)		±5%
Coating/Diffuser	Reflective ND (OD1.5)[c]	Reflective ND (OD1)[d]	Reflective ND (OD2)[e]	Absorptive ND (Schott NG9)
Head Temperature Measurement	NTC Thermistor 4.7 kΩ			
Housing Dimensions	Ø30.5 mm x 12.7 mm			
Cable Length	1.5 m			
Post Mounting[c,d,e]	Universal 8-32 / M4 Tap, Post Not Included			
Aperture Thread	External SM1 (1.035"-40)			
Fiber Adapters	S120-FC, S120-SMA, S120-ST, S120-LC, S120-SC (Not Included)			

a. Measured with PM100D console in low bandwidth setting.
b. Beam diameter > 1 mm.
c. For the S120VC, these specifications are valid for devices with serial numbers 1203xxx or higher. Older versions had a reflective ND diffuser (OD1). Additionally, they came with an 8-32 tap and M4 adapter. For additional information, please contact technical support.
d. For the S120C, these specifications are valid for devices with serial numbers 1203xxx or higher. Older versions had an absorptive ND diffuser (Schott NG3). Additionally, they came with an 8-32 tap and M4 adapter. For additional information, please contact technical support.
e. For the S121C, these specifications are valid for devices with serial numbers 1203xxx or higher. Older versions had a absorptive ND diffuser (Schott NG9). Additionally, they came with an 8-32 tap and M4 adapter. For additional information, please contact technical support.

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal		Price	Available / Ships
+1			**S120VC**	Standard Photodiode Power Sensor, Si, 200 - 1100 nm, 50 mW	$407.00	√ 3-5 Days
+1			**S120C**	Standard Photodiode Power Sensor, Si, 400 - 1100 nm, 50 mW	$294.00	√ Today
+1			**S121C**	Standard Photodiode Power Sensor, Si, 400 - 1100 nm, 500 mW	$319.00	√ 3-5 Days
+1			**S122C**	Standard Photodiode Power Sensor, Ge, 700 - 1800 nm, 40 mW	$587.00	√ Today

Add To Cart

Slim Photodiode Power Sensors

- For Optical Power Measurements in Confined Spaces
- Very Slim Design: 5 mm Thin on Sensor Side
- Ø9.5 mm Sensor Aperture
- Slideable ND Filter Automatically Changes Sensor Power Range
- Compatible with the PM200, PM100D, PM100USB, PM100A, and PM320E Consoles
- Optional SM1A29 Adapter with UV/IR Target and External SM1 Threading (More Details)

Click to Enlarge
SM1A29: SM1 Thread Adapter mounted on a S130C Sensor


Click to Enlarge
S130C Sensor in a 30 mm Cage

The S13xC Slim Photodiode Power Sensors are designed to take optical source power measurements in locations where space and accessibility are at a premium. The 5 mm thin Slim Photodiode Sensors can fit between closely space optics, cage systems, and other arrangements where standard power meters may not fit. The NIST-Traceable, calibrated sensors also feature a large Ø9.5 mm sensor aperture and slideable neutral density filter for dual power ranges in one compact device.

A separately available SM1A29 adapter can be attached by 2 setscrews to any S130 series power sensor to mount fiber adapters, light shields, filters or any other SM1-threaded (1.035"-40) mechanics or optics.

Item #	S130VC	S130C	S132C
Sensor Image (Click the Image to Enlarge)			
Aperture Size	Ø9.5 mm		
Wavelength Range	200 - 1100 nm	400 - 1100 nm	700 - 1800 nm[a]
Power Range (with filter)	500 pW - 0.5 mW[b] (Up to 50 mW)[b]	500 pW - 5 mW (Up to 500 mW)	5 nW - 5 mW (Up to 500 mW)
Detector Type	Si Photodiode (UV Extended)	Si Photodiode	Ge Photodiode

Linearity	±0.5%		
Resolution	100 pW[c]		1 nW[d]
Measurement Uncertainty[e]	±3% (440 - 980 nm) ±5% (280 - 439 nm) ±7% (200 - 279 nm, 981 - 1100 nm)	±3% (440 - 980 nm) ±5% (400 - 439 nm) ±7% (981 - 1100 nm)	±5%
Coating/Diffuser	Reflective ND (OD1.5)[b]	Reflective ND (OD2)[f]	Absorptive ND (Schott NG9/KG3)[a]
Housing Dimensions	150 mm x 19 mm x 10 mm; 5 mm Thickness on Sensor Side		
Cable Length	1.5 m		
Post Mounting	8-32 and M4 Taps		

a. For the S132C, these specifications are valid for devices with serial numbers 1203xxx or higher. Older versions had a reflective ND diffuser (OD1), which would decrease the wavelength range from 700 nm to 1800 nm to 1200 nm to 1800 nm. For additional information, please contact technical support.
b. For the S130VC, these specifications are valid for devices with serial numbers 1203xxx or higher. Older versions had an optical power range of 5 nW to 5 mW (50 nW to 50 mW with filter) and a reflective ND diffuser (OD1). For additional information, please contact technical support.
c. Measured with PM100D console in low bandwidth setting, without filter.
d. Measured with PM100D console in low bandwidth setting at 1550 nm, without filter.
e. Beam Diameter > 1 mm.
f. For the S130C, these specifications are valid for devices with serial numbers 1203xxx or higher. Older versions had an absorptive ND diffuser (Schott NG9). For additional information, please contact technical support.

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal		Price	Available / Ships	
+1			**S130VC**	Slim Photodiode Power Sensor, Si, 200 - 1100 nm, 50 mW	$592.00	√	Today
+1			**S130C**	Slim Photodiode Power Sensor, Si, 400 - 1100 nm, 500 mW	$489.00	√	Today
+1			**S132C**	Slim Photodiode Power Sensor, Ge, 700 - 1800 nm, 500 mW	$695.00	√	Today
+1			**SM1A29**	Customer Inspired! SM1 Thread Adapter for Slim Photodiode Sensors	$40.20	√	Today

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Microscope Photodiode Power Sensor

- Wavelength Range: 350 nm to 1100 nm
- Sensitive to Optical Powers from 10 nW to 150 mW
- Designed to Measure Light on the Objective Plane of a Microscope
- Silicon Photodiode with Large 18 mm x 18 mm Active Area
- Sensor Housing Dimensions: 76.0 mm x 25.2 x 5.0 mm
- Index Matching Gel Utilized in Design to Prevent Internal Reflections
- Information Stored in Connector
  - Sensor Data
  - NIST- and PTB-Traceable Calibration Data
- Post Mountable via 8-32 (M4) Tap

Item #	S170C
Sensor Image (Click Image to Enlarge)	
Overall Dimensions	76.0 mm x 25.2 mm x 5.0 mm (2.99" x 0.99" x 0.20")
Active Detector Area	18 mm x 18 mm
Input Aperture	20 mm x 20 mm
Wavelength Range	350 - 1100 nm
Optical Power Working Range	10 nW - 150 mW
Detector Type	Silicon Photodiode
Linearity	±0.5%
Resolution[a]	1 nW
Calibration Uncertainty[b]	±3% (440 - 980 nm) ±5% (350 - 439 nm) ±7% (981 - 1100 nm)
Neutral Density Filter	Reflective (OD 1.5)
Cable Length	1.5 m
Post Mounting	Universal 8-32 / M4 Tap, Post Not Included

a. Measured with PM100D console in low bandwidth setting.
b. Beam diameter > 1 mm.

The S170C Microscope Slide Power Sensor Head is a silicon photodiode sensor designed to measure the power at the sample in microscopy setups. The silicon photodiode can detect wavelengths between 350 nm and 1100 nm at optical powers between 10 nW and 150 mW. The sensor head's 76.0 mm x 25.2 mm footprint matches that of a standard microscope slide and is compatible with most standard upright and inverted microscopes.

The photodiode has an 18 mm x 18 mm active area and is contained in a sealed housing behind a neutral density (ND) filter with OD 1.5. A 20 mm x 20 mm indentation around the surface of the ND filter is sized to accept standard microscope cover slips. An immersion medium (water, glycerol, oil) may be placed in this well directly over the ND filter, or a cover slip may be inserted first to simplify clean up. The gap between the photodiode and the neutral density filter has been filled with an index matching gel in order to prevent internal reflections from causing significant measurement errors when using high NA objectives with oil or water.

The bottom of the sensor housing features a laser-engraved grid to aid in aligning and focusing the beam. In standard microscopes, the grid can be used for beam alignment before flipping the sensor head to face the objective for power measurements. In inverted microscopes, turn on the transmitted illuminator to align the grid on the detector housing with the beam, thereby centering the sensor in front of the objective. Alternatively, the diffusive surface of the ND filter can be used as a focusing plane.

Sensor specifications and the NIST- and PTB-traceable calibration data are stored in non-volatile memory in the sensor connector and can be read out by the latest generation of Thorlabs power meters. The S170C power sensor is compatible with the PM100D, PM100A, PM100USB, PM200, and PM320E power meters. We reccomend yearly recalibration to ensure accuracy and performance. Calibration may be ordered using the CAL1 recalibration service available below. Please contact technical support for more information.

The complete set of specifications are presented on the Specs tab above. Thorlabs also offers a Microscope Slide Sensor Head with a thermal sensor; the full presentation can be found here.

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal		Price	Available / Ships	
+1			**S170C**	Customer Inspired! Microscope Slide Power Sensor, 350 - 1100 nm, 150 mW	$1,090.00	√	Today

Add To Cart

Integrating Sphere Photodiode Power Sensors

- For Measurements Independent of Beam Shape and Entrance Angle
- Integrating Sphere Design Acts as a Diffuser with Minimal Power Loss
- Ø5 mm, Ø7 mm, or Ø12 mm Input Aperture
- Removable S120-FC Fiber Adapter (FC/PC and FC/APC) Included
- Compatible Fiber Adapters: S120-xx Series and S140-BFA Bare Fiber Adapter
- Compatible with the PM200, PM100D, PM100USB, PM100A, and PM320E Consoles

These Integrating Sphere Photodiode Power Sensors are the ideal choice for power measurements independent of beam uniformity, divergence angle, beam shape, or entrance angle, making them excellent for use with fiber sources and off-axis free space sources.

Our integrating spheres are designed for wavelength ranges from the visible through the NIR. Sensor heads for use between 350 and 2500 nm use a single Ø1" or Ø2" sphere made from Zenith® PTFE and feature a black housing to minimize reflected light around the entrance aperture. These sensors use either a silicon photodiode for detection in the 350 - 1100 nm range or an InGaAs photodiode for detection in the 800 - 1700 nm, 900 - 1650 nm, or 1200 - 2500 nm wavelength range.

The S180C integrating sphere for 2.9 - 5.5 µm uses two connected, gold-plated Ø20 mm spheres, with an entrance port in the first sphere and a port for the MCT (HgCdTe) detector located in the second sphere. Compared to single-sphere designs, the two-sphere configuration improves device sensitivity by minimizing the internal sphere surface area while still effectively shielding the detector from direct illumination. This design reduces the effect of input angle, divergence, and beam shape on the measurement result by effectively shielding the photodiode without the use of a baffle or other shielding mechanism.

Click to Enlarge
S142C with the S120-FC Fiber Adapter (Included)

Click to Enlarge
S142C and S140-BFA Bare Fiber Adapter (Sold Separately)

The integrating spheres below feature large Ø5 mm, Ø7 mm, or Ø12 mm apertures, externally SM1-threaded (1.035"-40) front connections, enhanced shielding against electromagnetic interference, and an over-temperature alert sensor. Because of the large active detector areas of these sensors, the included S120-FC fiber adapter can be used with FC/PC- or FC/APC-terminated fiber. The externally SM1-threaded adapter can be removed using a size 1 screwdriver to place components closer to the window. NIST-traceable data is stored in the sensor connector.

Item #	S140C	S142C	S144C	S145C	S146C	S148C	S180C
Sensor Image (Click the Image to Enlarge)							
Aperture	Ø5 mm	Ø12 mm	Ø5 mm	Ø12 mm		Ø5 mm	Ø7 mm
Wavelength Range	350 - 1100 nm		800 - 1700 nm		900 - 1650 nm	1200 - 2500 nm	2.9 µm - 5.5 µm
Power Range	1 µW - 500 mW	1 µW - 5 W	1 µW - 500 mW	1 µW - 3 W	10 µW - 20 W	1 µW - 1 W	1 µW - 3 W
Detector Type	Si Photodiode		InGaAs Photodiode				MCT (HgCdTe) Photodiode
Linearity	±0.5%						
Resolution[a]	1 nW				10 nW	1 nW	10 nW
Measurement Uncertainty[b]	±3% (440 - 980 nm) ±5% (350 - 439 nm) ±7% (981 - 1100 nm)		±5%				
Responsivity[c] (Click for Plot)	Raw Data	Raw Data	Raw Data	Raw Data	Raw Data	Raw Data	Raw Data
Integrating Sphere Material (Size)	Zenith® PTFE (Ø1")	Zenith® PTFE (Ø2")	Zenith® PTFE (Ø1")	Zenith® PTFE (Ø2")		Zenith® PTFE (Ø1")	Gold Plating (Two Ø20 mm Spheres)
Head Temperature Measurement	NTC Thermistor 4.7 kΩ						
Housing Dimensions	Ø45 mm x 30.5 mm	70 mm x 74 mm x 70 mm	Ø45 mm x 30.5 mm	70 mm x 74 mm x 70 mm		Ø45 mm x 30.5 mm	59.0 mm x 50.0 mm x 28.5 mm
Cable Length	1.5 m						
Post Mounting	8-32 and M4 Taps						
Aperture Thread	Included Adapter with SM1 (1.035"-40) External Thread						
Compatible Fiber Adapters	S120-FC (Included), S120-SMA, S120-ST, S120-SC, S120-LC or S140-BFA						

a. Measured with PM100D console in low bandwidth setting.
b. Beam diameter > 1 mm
c. All sensor responsivities are calibrated to a NIST-traceable source with measurements taken in 5 nm intervals except for the S180C. See the S180C responsivity graph to see the NIST-traceable reference points.

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal		Price	Available / Ships
+1			S140C	Integrating Sphere Photodiode Power Sensor, Si, 350 - 1100 nm, 500 mW	$675.00	√ Today
+1			S142C	Integrating Sphere Photodiode Power Sensor, Si, 350 - 1100 nm, 5 W	$937.00	√ Today
+1			S144C	Integrating Sphere Photodiode Power Sensor, InGaAs, 800 - 1700 nm, 500 mW	$793.00	√ Today
+1			S145C	Integrating Sphere Photodiode Power Sensor, InGaAs, 800 - 1700 nm, 3 W	$973.00	√ Today
+1			S146C	Integrating Sphere Photodiode Power Sensor, InGaAs, 900 - 1650 nm, 20 W	$973.00	√ Today
+1			S148C	Customer Inspired!Integrating Sphere Photodiode Power Sensor, InGaAs, 1200 - 2500 nm, 1 W	$814.61	√ Today
+1			S180C	NEW!Integrating Sphere Photodiode Power Sensor, MCT (HgCdTe), 2.9 - 5.5 µm, 3 W	$3,533.33	√ Today

Add To Cart

Fiber Photodiode Power Sensors

For Fiber-Based Optical Power Measurements
Compact Sensor Integrated into the Connector
Integrated Design for use in the Field and Lab
Includes PM20-FC Fiber Adapter
- S150C and S151C Sensors also Include PM20-SMA Adapters

Compatible with all PM20-xx Series Fiber Adapters
Compatible with the PM200, PM100D, PM100USB, PM100A, and PM320E Consoles

Click to Enlarge
PM100D with S150C Sensor and FC Cable

The S15xC Compact Fiber Photodiode Power Sensor is designed to take power measurements from a wide variety of fiber coupled sources. The compact sensor, integrated into the power meter connector, features a unique integrated design housing the photodiode sensor, fiber coupling, and NIST-traceable data. Standard FC (and SMA - S150C and S151C) connectors are easily interchanged with a variety of standard fiber connectors.

Item #	S150C	S151C	S154C	S155C

Sensor Image (Click the Image to Enlarge)				
Included Connectors	FC[d] & SMA		FC[d]	
Wavelength Range	350 - 1100 nm	400 - 1100 nm	800 - 1700 nm	
Power Range	100 pW to 5 mW (-70 dBm to +7 dBm)	1 nW to 20 mW (-60 dBm to +13 dBm)	100 pW to 3 mW (-70 dBm to +5 dBm)	1 nW to 20 mW (-60 dBm to +13 dBm)
Detector Type	Si Photodiode		InGaAs Photodiode	
Linearity	±0.5%			
Resolution[a]	10 pW (-80 dBm)	100 pW (-70 dBm)	10 pW (-80 dBm)	100 pW (-70 dBm)
Measurement Uncertainty[b]	±3% (440 - 980 nm) ±5% (350 - 439 nm) ±7% (981 - 1100 nm)	±3% (440 - 980 nm) ±5% (400 - 439 nm) ±7% (981 - 1100 nm)	±5%	
Coating/Diffuser	N/A	Absorptive ND (Schott NG3)	N/A	
Head Temperature Measurement[c]	NTC Thermistor 3 kΩ			
Aperture Thread	External SM05 (0.535"-40)			
Fiber Adapters	Included: PM20-FC & PM20-SMA; Optional: PM20-LC, PM20-SC, PM20-ST		Included: PM20-FC; Optional: PM20-LC, PM20-SC, PM20-ST, PM20-SMA	

a. Measured with PM100D console in low bandwidth setting.
b. For a beam diameter > 1 mm incident on the active area of the detector (i.e. at the detector surface after the light has exited the fiber and passed through any internal optics).
c. This specification is valid for devices with serial numbers 1203xxx and higher. For older versions, please contact technical support.
d. Because of the large active detector area of these sensors, the included PM20-FC fiber adapter can be used with both FC/PC- and FC/APC-connectorized fiber.

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal		Price	Available / Ships
+1			**S150C**	Compact Fiber Photodiode Power Sensor, Si, 350 - 1100 nm, 5 mW	$294.00	√ Today
+1			**S151C**	Compact Fiber Photodiode Power Sensor, Si, 400 - 1100 nm, 20 mW	$335.00	√ Today
+1			**S154C**	Compact Fiber Photodiode Power Sensor, InGaAs, 800 - 1700 nm, 3 mW	$422.00	√ Today
+1			**S155C**	Compact Fiber Photodiode Power Sensor, InGaAs, 800 - 1700 nm, 20 mW	$484.00	√ Today

Add To Cart

Recalibration Service for Photodiode Power Sensors

Thorlabs offers Calibration Services for our photodiode optical power sensors. To ensure accurate measurements, we recommend recalibrating the sensors annually. Recalibration of the console is included with the recalibration of a sensor.

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal		Price	Available / Ships
+1			**CAL1**	Recalibration Service for Si Power Meter Sensors Except S130 Series	$138.00	Lead Time
+1			**CAL2**	Recalibration Service for Ge & InGaAs Power Meter Sensors Except S132 Series and S148C	$155.00	Lead Time
+1			**CAL-S130**	Recalibration Service for Si Power Meter Sensors for S130 Series and PM160	$160.00	Lead Time
+1			**CAL-S132**	Recalibration Service for Ge Power Meter Sensors for S132 Series only	$170.00	Lead Time
+1			**CAL4**	NEW!Recalibration Service for MCT and Extended InGaAs Mid-IR Power Sensors (S148C and S180C)	$277.78	Lead Time

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Bare Fiber Adapter

Zoom

Compatible with S140C Series Power Sensors
Power Measurements of Bare Fiber Outputs
Easy Loading and Positioning of Optical Fiber in V-Groove
Supports Fiber with Buffer Diameters from 250 to 450 µm
Tight Holding without Fiber Damage by Magnetic Clip
Attached by Two M2.5 x 4 mm Countersunk Screws

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal		Price	Available / Ships
+1			**S140-BFA**	Bare Fiber Adapter for Calibrated Integrating Sphere Power Sensors	$124.00	√ Today

Add To Cart

Internally SM1-Threaded Fiber Adapters

These internally SM1-threaded (1.035"-40) adapters mate connectorized fiber to any of our externally SM1-threaded components, including our photodiode power sensors, our thermal power sensors, and our photodetectors.

Please contact Tech Support if you are unsure if the adapter is mechanically compatible.

Item #	S120-FC	S120-SMA	S120-ST	S120-SC	S120-LC
Click Image to Enlarge					
Fiber Connector Type[a]	FC/PC[b]	SMA	ST	SC	LC
Thread	Internal SM1 (1.035"-40)				

a. Other Connector Types Available upon Request
b. In certain angle-independent applications, this adapter may also be used with FC/APC connectors.

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal		Price	Available / Ships	
			S120-FC	FC/PC Fiber Adapter Cap with Internal SM1 (1.035"-40) Thread	$38.00	√	Today
			S120-SMA	SMA Fiber Adapter Cap with Internal SM1 (1.035"-40) Thread	$38.00	√	Today
			S120-ST	ST/PC Fiber Adapter Cap with Internal SM1 (1.035"-40) Thread	$38.00	√	Today
			S120-SC	SC/PC Fiber Adapter Cap with Internal SM1 (1.035"-40) Thread	$48.00	√	Today
			S120-LC	LC/PC Fiber Adapter Cap with Internal SM1 (1.035"-40) Thread	$48.00	√	Today

Add To Cart

Internally SM05-Threaded Fiber Adapters

These internally SM05-threaded (0.535"-40) adapters mate connectorized fiber to our free-space detectors and power sensors, including, but not limited to:

S150C Series Fiber Power Meter Sensors
PM200 Series Fiber Power Meter

Please contact Tech Support if you are unsure if the adapter is mechanically compatible.

Item #	PM20-FC	PM20-SC	PM20-LC	PM20-SMA	PM20-ST
Adapter Image					
Connector Type[a]	FC[b]	SC	LC	SMA	ST
Thread	Internal SM05 (0.535"-40)				

a. Other connector types are available upon request.
b. In certain angle-independent applications, such as mounting a fiber patch cable to the S15xC fiber photodiode sensors sold above, this adapter may also be used with FC/APC connectors.

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal		Price	Available / Ships	
			PM20-FC	FC/PC Fiber Adapter Cap with Internal SM05 (0.535"-40) Thread	$31.00	√	Today
			PM20-LC	Customer Inspired!LC/PC Fiber Adapter Cap with Internal SM05 (0.535"-40) Thread	$43.00	√	Today
			PM20-SC	SC/PC Fiber Adapter Cap with Internal SM05 (0.535"-40) Thread	$43.00	√	Today
			PM20-SMA	SMA Fiber Adapter Cap with Internal SM05 (0.535"-40) Thread	$31.00	√	Today
			PM20-ST	ST/PC Fiber Adapter Cap with Internal SM05 (0.535"-40) Thread	$43.00	√	3-5 Days

Add To Cart

Externally SM1-Threaded Slim Photodiode Adapter

Zoom

Compatible with Thorlabs Slim Photodiode Power Sensors
Enables Integration with Internally SM1-Threaded Components
Adds UV/IR Target Around Sensor

The SM1A29 adapter can be attached to our slim photodiode sensors using two setscrews, which are compatible with 0.035" (0.9 mm) hex keys. This allows for mounting internally SM1-threaded fiber adapters, filters, or other SM1-threaded mechanics or optics to our slim photodiode sensors.

Click to Enlarge
SM1 Lens Tube Mounted on an S132C Photodiode Sensor

Using an SM1A29 Adapter
Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal		Price	Available / Ships
+1			SM1A29	Customer Inspired!SM1 Thread Adapter for Slim Photodiode Sensors	$40.20	√ Today

Add To Cart

Additional Optical Power and Energy Meters

▶Photodiode Power Sensors	Digital Handheld Power & Energy Meter Console	Compact USB Power Meters	Power Meter Tutorial
Thermal Power Sensors	Analog Handheld Power Meter Console	Wireless Power Meter with Sensor	
Pyroelectric Energy Sensors	Power and Energy Meter, USB Interface	Power Meter Bundles	
Touch Screen Power and Energy Meter Console	Dual-Channel Benchtop Power/Energy Meter Console	Field Power Meter for Terminated Fibers	

Sales: 1-973-300-3000
Technical Support: 1-973-300-3000