Light Analysis

For current pricing, please see our website.

C-Series of Standard Photodiode Optical Power Sensors

	Power Meters
	Detectors
	Beam Characterization
	Polarimetry
	Electronics Accessories
,	SECTIONS

Power Meters
Touch Screen Meter
Digital Meter
Analog Meter
Compact Sensor Interface
Dual-Channel Meter
Photodiode Sensors
Thermal Sensors
Pyroelectric Sensors
Field Service

Have

Com

Meter



These general-purpose, free-space and fiber photodiode sensors offer fast response for precise low-power measurements. When using these photodiode sensors, the wavelength of light must be entered on the console to obtain accurate power measurements. Each sensor has an external SM1 (1.035"-40) thread, which allows it to be incorporated into a variety of applications including SM1 lens tubes and 30 mm cage systems. Compatible fiber adapters for FC, LC, SC, SMA, and ST connectors are available separately. For accurate measurements, we recommend recalibrating these sensors annually; see the price box below for details.

C-Series Connectors

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

Features

- Calibration for Wavelengths from as Low as 200 nm up to 1800 nm
- Power Measurements from 50 nW to 500 mW
- Fluorescing Target for Viewing IR or UV Beams
- Externally SM1 Threaded
- Fiber Adapters Available
- Compatible with all C-Series Power Meters
- NIST-Traceable Data Stored in Sensor Connector



400 – 1100 nm

500 nW - 500 mW

10 nW

	ITEM #	S120C	\$120VC
ou seen our	Wavelength Range	400 – 1100 nm	200 – 1100 nm
	Optical Power Range	50 nW -	- 50 mW
atible Power	Average Power Density		20 W/cm ² (Max)
	Detector Type		Si Photodiode
S	Recalibration Service		CAL1
35.28mW	Target Sensitivity	VIS/IR	UV
3 Þ	Resolution*	1 nW	
PM320E	Measurement Uncertainty		±3% (451 – 1000 nm) ±5% (Over Rest of Range)
200	Response Time		<1
PM100USB	Aperture		Ø9.:
PM100USB	Cable Length		1.4

£ 27 36

£ 27.36

£ 96.48

£ 108.00

€ 33,06

€ 33,06

€

116,58

€ 130,50

See pages XXX – XXX	
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S120-SMA

S120-ST

CAL1

CAL2

THOP TO	Measurement Uncer	tainty		±5% (Over Rest	of Range)	±5%	
11 A A A A A A A A A A A A A A A A A A	Response Time		<1 µs				
	Aperture		Ø9.5 mm				
1003B -	Cable Length				1.5 m		
0	Mounting		8-32 and M4 Taps				
	Lens Tube Compatil	oility	External SM1 Threads				
PM100A	Cage Compatibility		SM1 Cage Plates (Available Separately)				
-XXX	Console Compatibili	ty***	PM200, PM100D, PM100A, PM100USB, PM320E, and Future C-Series Power Meters				
	*Measured with PM100I	O console in low band	lwidth setting. **]	Not backwards compatibl	***S120C, S120VC, and S121C devices with 1203xxx had an 8-32 tap and came with		
ITEM #	\$	£	€	RMB	DESCRIPTIC	DN	
S120C	\$ 285.00	£ 205.20	€ 247,95	¥ 2,271.45	C-Series Power Sensor, 400 – 1100	nm, 50 nW – 50 mW	
\$120VC	\$ 395.00	£ 284.40	€ 343,65	¥ 3,148.15	C-Series Power Sensor, 200 – 1100	nm, 50 nW – 50 mW	
\$121C	\$ 310.00	£ 223.20	€ 269,70	¥ 2,470.70	C-Series Power Sensor, 400 – 1100	nm, 500 nW – 500 mW	
\$122C	\$ 570.00	£ 410.40	€ 495,90	¥ 4,542.90	C-Series Power Sensor, 700 – 1800	nm, 50 nW – 40 mW	
\$120-FC	\$ 38.00	£ 27.36	€ 33,06	¥ 302.86	Internally SM1-Threaded F	C Fiber Adapter	
S120-LC	\$ 48.00	£ 34.56	€ 41,76	¥ 382.56	Internally SM1-Threaded L	C Fiber Adapter	
\$120-SC	\$ 48.00	£ 34.56	€ 41,76	¥ 382.56	Internally SM1-Threaded S	C Fiber Adapter	

¥

¥ 302.86

302.86

¥ 1,067.98

¥ 1,195.50

1560

\$ 38.00

\$ 38.00

\$ 134.00

\$ 150.00

S122C

700 – 1800 nm

50 nW - 40 mW

10 W/cm2 (Max) Ge Photodiode

CAL2

2 nW +5%

VIS/IR

Internally SM1-Threaded SMA Fiber Adapter

Internally SM1-Threaded ST Fiber Adapter

Si Recalibration Service (S120C, S120VC, and S121C)

Ge Recalibration Service (S122C)