

# PH-B

10 pW - 2 mW, for Digital Module



## KEY FEATURES

### 1 Use with our Digital Module

The heads can be connected to a PC with the digital power module (DPM)

- DPM: USB Powered Digital Module (Includes Application Software)

### 2 Very Sensitive Optical Power Detector

Measure down to 10 pW level

### 3 3 Sensors Available

- PH10B-Si: 10 mm Ø, Silicon sensor for 0.19 to 1.1  $\mu\text{m}$
- PH5B-Ge: 5 mm Ø, Germanium sensor for 1.0 to 1.7  $\mu\text{m}$
- PH3B-In: 3 mm Ø, InGaAs sensor for 0.9 to 1.6  $\mu\text{m}$

## AVAILABLE MODELS



PH10B-Si  
(10 mm - Silicon)



PH5B-Ge  
(5 mm - Germanium)

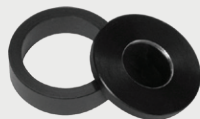


PH3B-In  
(3 mm - InGaAs)

## ACCESSORIES



Stand with Delrin Post



Removable IR Windows  
(Various types available)



Fiber Adaptors & Connectors  
(FC, SC, ST and SMA)



Pelican Carrying Case

## SEE ALSO

TECHNICAL DRAWINGS	126
COMPATIBLE MODULE	
DPM	30



MONITORS ENERGY DETECTORS POWER DETECTORS OPTICAL DETECTORS THZ DETECTORS OEM DETECTORS CALORIMETERS DIFFRACTIVE OPTICS BEAM DIAGNOSTICS

# PH-B

## SPECIFICATIONS



Approved or in the process of being approved\*

MODELS	PH10B-Si	PH5B-Ge	PH3B-In
MAX AVERAGE POWER	2 mW	2 mW	200 $\mu$ W
EFFECTIVE APERTURE	10 mm $\emptyset$	5 mm $\emptyset$	3 mm $\emptyset$
COMPATIBLE MODULE(S)	DPM	DPM	DPM

MEASUREMENT CAPABILITY	PH10B-Si	PH5B-Ge	PH3B-In
Spectral Range	0.19 - 1.1 $\mu$ m	1.0 - 1.7 $\mu$ m	0.9 - 1.6 $\mu$ m
Maximum Measurable Power	2 mW	2 mW	200 $\mu$ W
Noise equivalent power	10 pW	10 pW	10 pW
Rise Time (0-100%)	$\leq$ 0.2 s	$\leq$ 0.2 s	$\leq$ 0.2 s
Peak Sensitivity	0.5 A/W	0.98 A/W	0.9 A/W
Calibration Uncertainty	$\pm$ 4% @ 0.63 $\mu$ m	$\pm$ 5% @ 1.047 $\mu$ m	$\pm$ 4% @ 1.047 $\mu$ m
DAMAGE THRESHOLDS			
Max Average Power Density (@ 1.064 $\mu$ m)	1 mW/cm <sup>2</sup>	1 mW/cm <sup>2</sup>	1 mW/cm <sup>2</sup>
PHYSICAL CHARACTERISTICS			
Effective Aperture	10 mm $\emptyset$	5 mm $\emptyset$	3 mm $\emptyset$
Sensor	Silicon	Germanium	InGaAs
Dimensions	38.1 $\emptyset$ x 26.2D mm	38.1 $\emptyset$ x 26.2D mm	38.1 $\emptyset$ x 26.2D mm
Weight	91 g	91 g	91 g
ORDERING INFORMATION			
Full Product Name	PH10B-Si	PH5B-Ge	PH3B-In
Product Number	201533	201501	201506

Specifications are subject to change without notice

\* For details, contact your Gentec-EO representative