

## PH100-SI-HA-DO

Photodiode detector for laser power measurement up to 36 mW.



### PRODUCT FAMILY KEY FEATURES

#### LARGE APERTURES

10 mm Ø for the silicon sensors

#### 3 VERSIONS

- Silicon 350 - 1080 nm, up to 750 mW
- Silicon-UV 210 - 1080 nm, up to 38 mW
- Germanium 800 - 1650 nm, up to 500 mW

#### CHOICE OF ATTENUATORS

Models with attenuators include a calibration both with and without the removable filter

#### HIGH ACCURACY

The new PH100-SI-HA presents the lowest calibration uncertainty to date.

#### PRECISE CALIBRATION

Wavelength selection in 1 nm steps

#### SMART INTERFACE

Containing all the calibration data

#### COMPATIBLE STAND

[STAND-D-233](#)

## SPECIFICATIONS

### MEASUREMENT CAPABILITIES

|                                      |                                                                                                                                                       |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum average power <sup>1</sup>   | 36 mW                                                                                                                                                 |
| Noise equivalent power <sup>2</sup>  | 10 pW                                                                                                                                                 |
| Spectral range                       | 350 - 1080 nm                                                                                                                                         |
| Typical rise time                    | 0.2 s                                                                                                                                                 |
| Power calibration uncertainty        | ±5.0 % (350 - 399 nm)<br>±2.0 % (400 - 449 nm)<br>±1.5 % (450 - 809 nm)<br>±2.0 % (810 - 899 nm)<br>±4.0 % (900 - 1009 nm)<br>±7.5 % (1010 - 1080 nm) |
| Peak sensitivity                     | 0.5 A/W @ 980 nm                                                                                                                                      |
| Minimum repetition rate <sup>3</sup> | 1000 Hz                                                                                                                                               |

1. At 1064 nm. See curves for maximum power at other wavelengths.

2. At 980 nm. Nominal value. Actual value depends on environmental electromagnetic interference and wavelength.

3. See user manual for details.

### DAMAGE THRESHOLDS

|                               |                       |
|-------------------------------|-----------------------|
| Maximum average power density | 100 W/cm <sup>2</sup> |
|-------------------------------|-----------------------|

### PHYSICAL CHARACTERISTICS

|                         |                  |
|-------------------------|------------------|
| Aperture diameter       | 10 mm            |
| Absorber                | Si               |
| Dimensions              | 38.1Ø x 27.4D mm |
| Weight                  | 0.13 kg          |
| Distance to sensor face | 13.7 mm          |

### ORDERING INFORMATION

|                |        |
|----------------|--------|
| PH100-Si-HA-DO | 202681 |
|----------------|--------|

Specifications are subject to change without notice. Refer to the user manual for complete specifications.

## INTERESTED IN THIS PRODUCT?

GET A QUOTE

Find your local sales representative at [gentec-eo.com/contact-us](https://gentec-eo.com/contact-us)