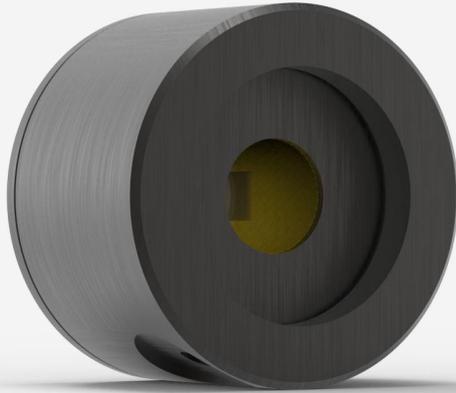




PH20-GE-D0

Photodiode detector for laser power measurement up to 30 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

- OD0.3: 50% transmission (for PH100-SI^{UV} only)
- OD1: 10% transmission
- OD2: 1% transmission

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 ¹ | 30 mW |
| Noise equivalent power ² | 60 pW |
| Spectral range | 800 - 1650 nm |
| Typical rise time | 0.2 s |
| Power calibration uncertainty | ±5.0 % (800 - 1049 nm) ±3.5 % (1050 - 1559 nm) ±7.0 % (1560 - 1629 nm) ±10 % (1630 - 1650 nm) |
| Peak sensitivity | 0.98 A/W @ 1550 nm |
| Minimum repetition rate ³ | 155 kHz |

1. At 1064 nm. See curves for maximum power at other wavelengths.
2. At 1550 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 ² |
|-------------------------------|-----------------------|

PHYSICAL CHARACTERISTICS

| | |
|-------------------------|------------------|
| Aperture diameter | 5 mm |
| Absorber | Ge |
| Dimensions | 38.1Ø x 27.4D mm |
| Weight | 0.13 kg |
| Distance to sensor face | 10.5 mm |

ORDERING INFORMATION



| | |
|----------------|--------|
| PH20-Ge-D0 | 200866 |
| PH20-Ge-IDR-D0 | 203242 |
| PH20-Ge-INT-D0 | 202794 |

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