# PH

10 pW to 750 mW, Si and Ge sensors


## 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-SIUV only)
  - OD1: 10% transmission
  - OD2: 1% transmission
- **HIGH ACCURACY**
  The PH100-SI-HA presents the lowest calibration uncertainty to date
- **PRECISE CALIBRATION**
  Wavelength selection in 1 nm steps

## OD ATTENUATORS

OD attenuators sold in option. When bought together, the detector is calibrated with and without the attenuator.

PH series detector with OD attenuator

## OUTPUT OPTIONS

- **SMART DB15 CONNECTOR**
  Contains all the calibration data
- *integra* **ALL-IN-ONE-METER**
  Connects directly to a PC
  Two models available:
  - USB output (-INT)
  - RS-232 output (-IDR)

## COMPATIBLE DISPLAYS & PC INTERFACES

MIRO ALTITUDE

MAESTRO

TUNER

UNO

U-LINK and P-LINK

M-LINK

## ACCESSORIES

Stand with delrin post

Extension cables (4, 15, 20 or 25 m)

Fiber adaptors & connectors (FC, SC, ST and SMA)

Attenuateurs OD

Malette de transport Pelican

# PH
## Specifications

CE Nisr· Traceable r:-7

'Also traceable to NRC-CNRC



| | PHI00-51-HA-DO | PHIOO-SIUV-DO | PH20-CiE-DO |
|---|---|---|---|
| **MAX AVERACiE POWER* (ALONE/WITH MAX ATTENUATION)** | 36mW/750 mW | 4mW/38mW | 30mW/500mW |
| **EFFECTIVE APERTURE** | I0mmr/J | I0mmr/J | 5mmr/J |
| **MEASUREMENT CAPABILITY** | | | |
| Calibrated spectral range | 350-1080 nm | 210-1080 nm | 800-1650 nm |
| WithOD0.3 | --- | 210-1080 nm | --- |
| WithODI | 400-1080nm | 400-1080nm | 900-1650 nm |
| WithOD2 | 630-1080 nm | --- | 950-1650 nm |
| Maximum measurable power• | 36 mW at 1064 nm | 4 mWat532 nm | 30 mW at 1064 nm |
| WithOD0.3 | --- | 16 mW at 300 nm | --- |
| WithODI | 300 mW at 1064 nm | 38 mW at 532 nm | 300 mW at 1064 nm |
| WithOD2 | 750 mW at 1064 nm | --- | 500 mW at 1064 nm |
| Noise equivalent power' | 10 pW at 980 nm | 10 pW at 850 nm | 60 pW at 1550 nm |
| Rise time (nominal) | 0.25 | 0.25 | 0.25 |
| Calibration uncertainty | ± 5.0% (350 - 399 nm} | ± 18% (210 - 229 nm} | ± 5.0% (800 - 1049 nm} |
| | ± 2.0% (400 - 449 nm} | ± 8.0% (230 - 254 nm} | ± 3.5% (1050 -1559 nm} |
| | ± 1.5% (450 - 809 nm} | ± 6.5% (255 - 399 nm} | ± 7.0% (1560 -1629 nm} |
| | ± 2.0% (810- 899 nm} | ± 2.5% (400 - 899 nm} | ± 10% (1630 - 1650 nm} |
| | ± 4.0% (900 - 1009 nm} | ± 4.0% (900 - 1009 nm} | --- |
| | ± 7.5% (1010 - 1080 nm} | ± 7.5% (1010 - 1080 nm} | --- |
| Calibration uncertainty (with OD filters) | ± 5.0% (400 - 419 nm} | Same as without attenuator | ± 5.0% (900 - 1559 nm} |
| | ± 4.0% (420 - 899 nm} | --- | ± 7.0% (1560 -1629 nm} |
| | ± 5.0% (900 - 1009 nm} | --- | ± 10% (1630 - 1650 nm} |
| | ± 7.5% (1010 -1080 nm} | --- | --- |
| **DAMACiE THRESHOLDS** | | | |
| Maximum average power density | 100W/cm² | 100W/cm² | 100W/cm² |
| **PHYSICAL CHARACTERISTICS** | | | |
| Effective aperture | I0mm(/J | I0mm(/J | 5mm(/J |
| Distance to sensor face | 13.7mm | 13.7mm | 10.5mm |
| Sensor | Silicon | UV-Silicon | Germanium |
| Dimensions | 38.Ir/J x 27.4D mm | 38.Ir/J x 27.4D mm | 38.Ir/J x 27.4D mm |
| Weight (head only) | 130g | 130g | 130g |
| **PBPEBINQ.INfOBMAIIPN** | | | |
| Available output options | D815, USB or RS-232 | D815, USB or RS-232 | D815, USB or RS-232 |
| Compatible stand | Stand-D-233 | Stand-D-233 | Stand-D-233 |
| Product page | | | |

• *See curves (p. 62-64) for maximum power at other wavelengths*

a Nominal value. Depends on environmental electromagnetic interference and wavelength.





Specifications are subject to change without notice
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