

PD-45 series

<https://www.gigahertz-optik.com/en-us/product/pd-45-series/>

Product tags: VIS , NIR



Description

Universal Laser Power Detector

The PD-45-series is designed as universal laser power detectors to be combined with laser power meters like the [P-21 Touchscreen Power Meter](#). The thermopile version is only compatible with the P-21, the others can also be used with [P-9710](#) or [X1](#).

Housing and Connector

The PD-45-series detectors are designed with 45 mm diameter and 20 mm height. The -5 plug offers the possibility to save calibration data.

Three Different Configurations

We offer a classical Silicon (Si)-based configuration for the UV/VIS/NIR/IR range, a Germanium (Ge)-based version for NIR and a Thermopile version for NIR/IR range.

Traceable Calibration

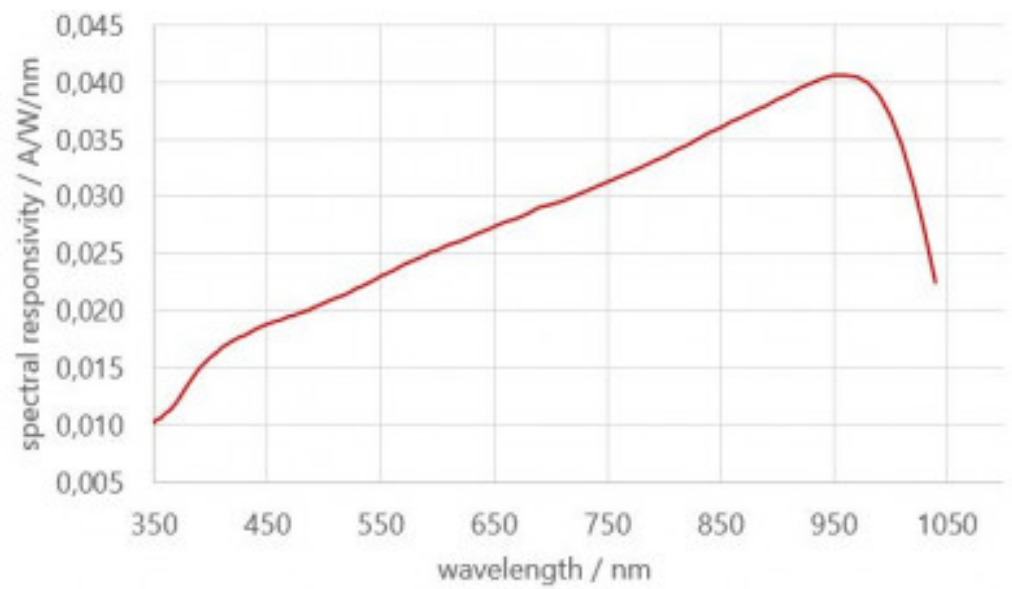
With our [ISO 17025 accredited calibration laboratory](#) we can offer you accurate laser power meter calibrations in various wavelength steps and ranges.



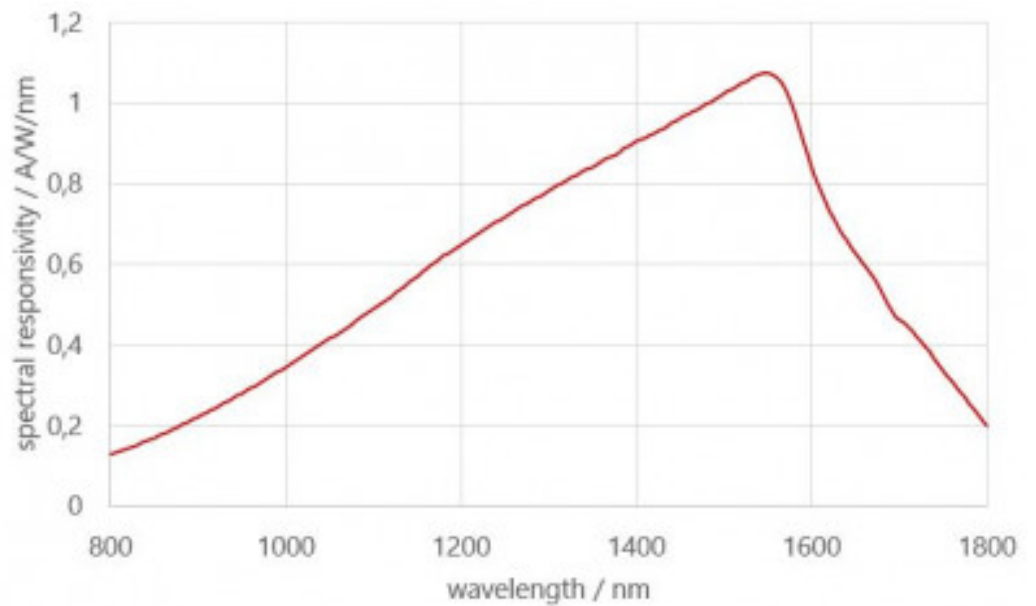
PD-45 series for laser power measurement of laser, laser diodes, VCSEL, etc.

Specifications

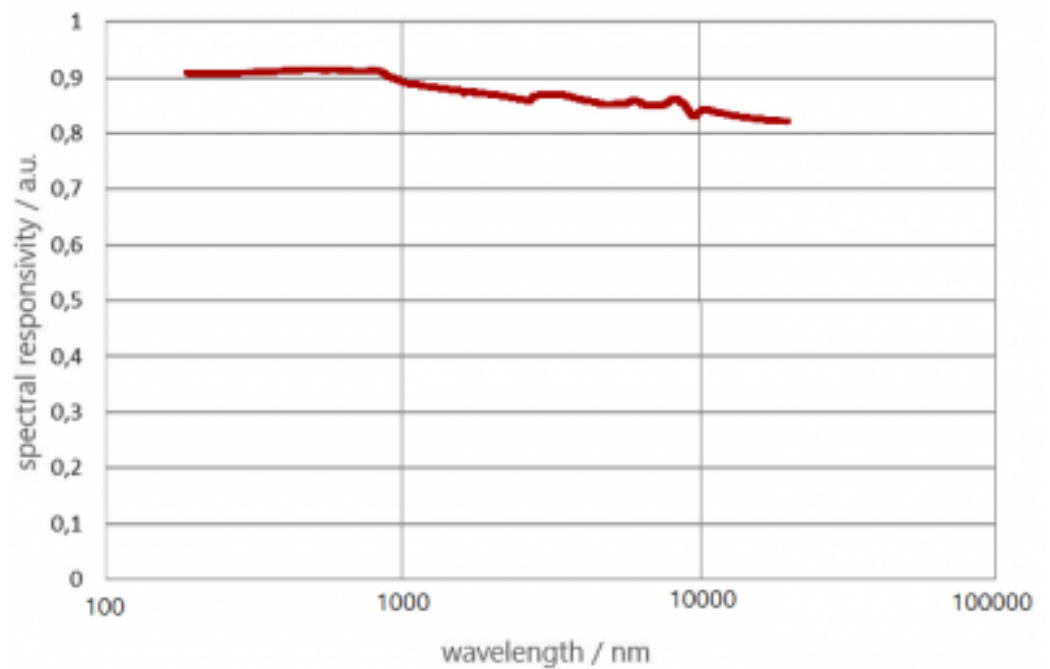
General	
Short description	Detector for laser power measurements of different type of lasers
Main features	Different versions for different applications (Si, Ge, Thermopile), -5 connector with option for calibration data saved in detector, 10 mm active area, 45 mm diameter and 20 mm height
Measurement ranges	depending on type
Typical applications	laser diode measurement, VCSEL measurement, LiDAR laser measurement, tunable laser power measurement, etc.
Calibration	laser power at different wavelength (depending on type)
Specification	



PD-45-Ge (800 nm to 1800 nm typical):



PD-45-TP (300 nm to 10000 nm typical):



Housing	10 mm Ø active area
	45 mm Ø housing x 20 mm height
Connector	-5
Temperature range	(5-40) °C
Cable Length	2 m (Standard length, other lengths on request)

Downloads

Type	Description	File-Type	Download
Drawing	PD-45-Ge-5	pdf	https://www.gigahertz-optik.com/assets/Uploads/V128012.pdf
Drawing	PD-45-Si-5	pdf	https://www.gigahertz-optik.com/assets/Uploads/V128037.pdf
Drawing	PD-45-TP-5	pdf	https://www.gigahertz-optik.com/assets/Uploads/V128038.pdf

Purchasing information

Article-Nr	Modell	Description
Product		
15314794	PD-45-Si	Detector without Calibration
15314792	PD-45-TP	Detector without Calibration
15314819	PD-45-Ge	Detector without Calibration

Article-Nr	Modell	Description
Calibration		
15316141	K-PD45Si-Phi	Calibration of Si Version
15316143	K-PD45TP-Phi	Calibration of TP Version
15316142	K-PD45Ge-Phi	Calibration of Ge Version

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- Calibrations & Re-Calibrations ([ISO/IEC 17025 Calibration Services](#), [factory calibration](#), [Calibration of Third-Party Products](#))
- Repairs & Updates
- OEM & Feasibility Consulting of Customized Solutions

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