

PLCD series

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

Product tags: UV , VIS , NIR ,



Description

PLC Detectors which fit Your Application! □ The PLCD-Series

The **PLCD family** is a price attractive flexible product family for direct usage in **PLC applications**. These detectors are based on a electronic board with fix current amplification range and (0 – 20) mA , (4 – 20) mA output current or (0 – 5) V output voltage. The fix current amplification range is available in **different configurations** (gain factors).

Analog PLC Detector Solutions for your Application

Furthermore different diode/filter configurations are available or custom setups possible **to address specific customer needs and applications** (e.g. UVC, VIS, etc.). This paired with the configuration of the amplification range makes this product series a powerful solution.

PLC Customized Mechanics Possible

It has to be mentioned that for specific applications **custom designed mechanical housings are possible**. [See for instance the RCH-version which is suited for high temperature applications like UV curing.](#)

Calibration of PLC Sensors

One essential quality feature of detectors is their precise and traceable calibration. The PLCD series is calibrated by Gigahertz-Optik's [ISO/IEC 17025 calibration laboratory](#). Every device is delivered with its respective calibration certificate.



detector series for PLC applications



perfect suited for PLC integration



PLCD-RCHxxx Version for high-temperature applications

Specifications

General

Short description

Detector for direct use in PLC applications

Main features	(0-20) mA, (4-20) mA or (0-5) V version with different amplification ranges available. Application specific spectral responsivities available (UVC, VLambda, etc.)		
Measurement ranges	depending on the configuration		
Typical applications	feedback sensor for control of PLC machines, 254 nm disinfection (air treatment, water treatment), illuminance measurement, irradiance measurement, etc.		
Calibration	depending on the configuration / version and application		
Specification			
Current	(0 - 20) mA (Version 1) (4 - 20) mA (Version 2) (0 - 5) V (Version 3)		
Current / Voltage gain ranges	Gain options	A/mA	A/V
		(Version 1 & 2)	(Version 3)
	10	1.00E-10	1.00E-9
	9	1.00E-9	1.00E-8
	8	1.00E-8	1.00E-7
	7	1.22E-8	1.22E-7
	6	3.03E-8	3.03E-7
	5	1.00E-7	1.00E-6
	4	1.47E-7	1.47E-6
	3	1.00E-6	1.00E-5
	2	1.47E-6	1.47E-5
	1	1.00E-5	1.00E-4
Housing	10 mm Ø diffusor 37 mm Ø housing x 25 mm height (standard housing, different mechanical housing on demand)		
Filter	depending on the application (some exemplary configurations: UV254, UVA, Erythem, VLambda, etc.)		
Electrical connection	no connector plug, open wire		
Temperature range	(5 - 40) °C		
Cable Length	2 m (Standard length, other lengths on request)		
Power Supply	(3 - 25) V		

Purchasing information

Article-Nr	Modell	Description
Product		
15313021	PLCD-UVC-1-01-0	UV 254nm version with gain = 1 and open connector
15312924	PLCD-UVBLUE-1-09-0	UVBlue (365nm, 405nm) version with gain = 9 and open connector
15313535	PLCD-RCH216-1-09-0	RCH216 version with gain = 9 and open connector
	PLCD-xxx-y-z	request for a customized version

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

[Send us your inquiry](#) or contact us by phone or e-mail. We would welcome your feedback too or review us on [Google](#).

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