RCH-XXXs Series

https://www.gigahertz-optik.com/en-us/product/rch-xxxs/

Product tags: UV ,

Description

RCH-0XXs spherical irradiance detector

For UV-C disinfection systems, the fluence rate must be measured to ensure that the dose is sufficient for adequate disinfection. E.G. DIN 67506 requires as on option such measurements in order to characterize UV-C secondary air devices. With our RCH-0XXs detector series real spherical irradiance measurements, hence the fluence rate are possible. This traceable calibrated with high homogenity to provide accurate measurements. This for 254 nm or UV-C LEDs.

Convincing specifications

A high degree of homogeneity of the spherical diffuser for precise measurements as well as high temperature resistance with little aging. We offer traceable calibrations, which can also be optimised for the desired radiation sources. To ensure a convincing application, the detector consists of a very small 10 mm diffuser sphere size and a flexible detector hose, which allows the measuring system to be easily inserted into systems.

real spherical irradiance detector for precise fluence rate measurements

Calibration

The detector can be built with different spectral responses and can be optimised and calibrated for various standard light sources or customer-specific lamps. The calibration is supplied with a factory calibration certificate that corresponds to the **high standard of the measuring laboratory for optical radiation measurements of Gigahertz-Optik**. If necessary, a test certificate accredited according to DIN EN ISO / IEC 17025 can optionally be created for the detector with the associated measuring device.

Option

A version with rigid fiber is also available.

Specifications

General	
Short description	UV spherical irradiance detectors for measuring the fluence rate in e.g. UV-C applications
Main features	Detectors for use with all Gigahertz-Optik measuring devices. Designed for use in with high-intensity and temperatures for fluence rate measurements.
Measurement ranges	depending on configuration (spectral response)
Typical applications	UV fluence rate measurements in disinfection with UV medium pressure arc lamps or high-performance UV LEDs
Product	

Sphere diameter	10 mm
Light Guide	Flexible: 50 cm / 20 inch
Input optics	inhomogenity better ± 10% (except position of mechanical fixture)
Calibration	depending on setup, individually for typical LEDs or 254 nm
Typical responsivity	examplarily for RCH-122s (rel. spectral similar to UV-3727): 5.15E-07 A/(W/cm²) @ 222 nm 8.30E-07 A/(W/cm²) @ 254 nm
Miscellaneous	
Temperature range	up to + 100 °C (short-term)
Humidity	<80%, non-condensing

Purchasing information

Article-Nr	Modell	Description
Product		
15318570	RCH-022s-5	Spherical detector with -5 connector. Calibration with factory calibration certificate UV LED (250 - 300) nm in 5 nm steps and 222 nm, 254 nm
15318648	RCH-122s-5	Spherical detector with -5 connector. Rigid light guide. Calibration with factory calibration certificate UV LED (250 - 300) nm in 5 nm steps and 222 nm, 254 nm

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- Repairs & Updates
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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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