Verification of UV Sterilization System

Member of GHM GROUP

UVBC-CK01-ACC / UVBC-CK02-ACC

RELIABLE RADIATION STERILIZATION

Recommended for verification of **UV lights**

DESIGNED ESPECIALLY FOR LED LIGHT

Wider spectral range compared to traditional UVC probes

YOUR GUARANTEE FOR ACCURACY

Probe available with **ISO 17025 Calibration** Certificate

HANDHELD AND RUGGED

Easy to carry, **simple to operate** and to safe your measurements

Make sure you get the maxium efficency from your UV LED light

Faced with the fear of Covid-19, all over the world, researchers are focused on finding solutions and tools to fight the virus. These include as well **UV lamps** and their capacity to inhibit viruses. According to recent studies, it appears that the application of UVC ultraviolet radiation used by the new **LED lamps** has proved to be **highly effective.**

The result is a significant increase in the market of UV LEDs available with a wavelenght centered around 265 and 275 nm which corresponds to the maximum germicidal efficiency range.

If the sensitivity of the traditional UVC probes changes rapidly around 270 nm and makes them indicated for other UV light sources, **LP471UVBC** is the **perfect solution for UV LED lights.** Testing LEDs and getting a clear and accurate reading of the light is of the utmost importance.

With our **UVBC kits** (measuring cell LP471UVBC + one of our handheld instruments), we assure correct and reliable measures. Delta OHM uses a special solar-blind photodiode with an appropriate filter and provided with a diffuser.
Moreover, the **ISO 17025 Calibration Certificate,** issued by our own accredited Photo-radiometry laboratory, guarantees that the correctness of your measurements are carried out according to worldwide standard reference.

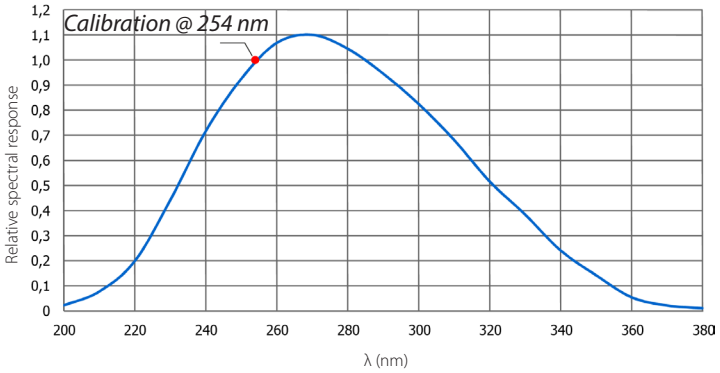
Main Applications

Verification of germicidal lamps used in sterilization systems that use LEDs as UV light sources.

Technical Specifications of the probe

Measuring range	$1 \cdot 10^{-3}$ …2000 W/m²
Spectral range	210…355 nm (Peak 265nm)
Calibration uncertainty	<7% (calibration @ 254 nm)
f_3 (linearity)	<2%
f_5 (fatigue)	<0.5%
Drift after 1 year	<2%
Working temperature	0…50 °C
Connection to the instrument	Connector with SICRAM module and 2 m cable

Typical relative spectral response curve LP471UVBC



At Delta OHM **ISO 17025 Photo-Radiometry laboratory**, the calibration of the LP471UVBC probe is carried out with Xenon-Mercury lamp, filter at 254 nm.

Dimensions

HD2302.0 - Basic verison: just measure and read the correct value

Protection Degree	IP67
Operating Conditions	-5…+50°C 0…90% RH without condensation
Batteries	3 1.5V type AA batteries
Autonomy	200 hours with 1800mAh alkaline batteries
Measuring units	W/m² - µW/cm²

HD2102.2 - Advanced version: logging and free reporting software

Protection Degree	IP66
Operating Conditions	-5…50°C 0…90% RH without condensation
Batteries	4 1.5V type AA batteries
Autonomy	200 hours with 1800mAh alkaline batteries
Mains	Output mains adapter 100-240Vac/12Vdc-1A
Measuring units	W/m² - J/m²- µW/cm² - µJ/cm²
Security of memorized data	Unlimited, independently of battery charge conditions
Date and time	Schedule in real time
Quantity of measured values storage	Total of 38000 samples
Selectable storage interval	1, 5, 10, 15, 30 s, 1, 2, 5,10, 15, 20, 30 min 1 hour
USB interface type	1.1 - 2.0 electrically isolated

Ordering Codes

UVBC-CK01-ACC	HD2102.2 datalogger complete with batteries, case, DeltaLog9 software downloadable from website, USB cable *CP23*, stabilized power supply *SWD10*, LP471UVBC radiometric probe with **ISO 17025 Calibration Certificate** *VACCREDIA-L6*.
UVBC-CK02-ACC	HD2302.0 complete with batteries, case, LP471UVBC radiometric probe with **ISO 17025 Calibration Certificate** *VACCREDIA-L6*.

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In order to ensure the quality of our instruments, we are constantly re-evaluating our products. Improvements can imply changes in specification; we advise you to always check our website for the newest version of our documentation.

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