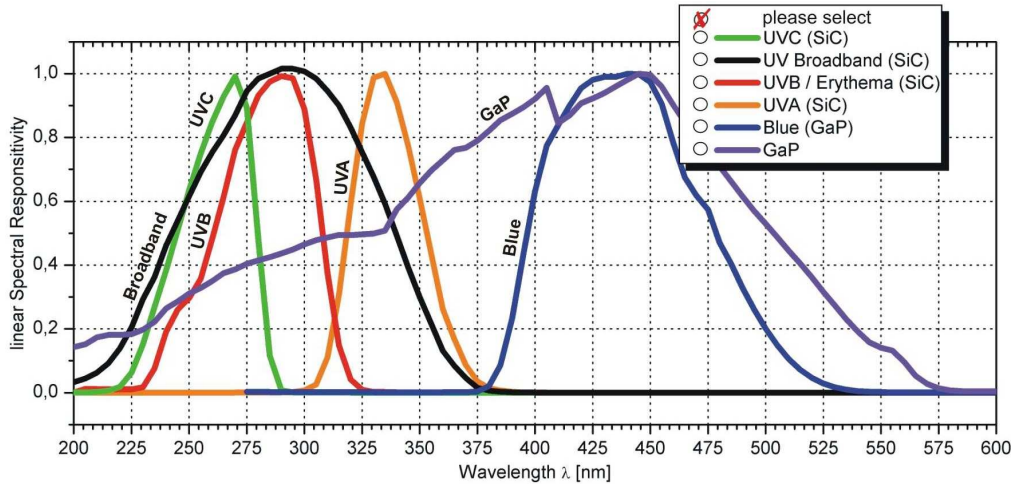


UV SENSOR "UV-Cosine"

Waterproof UV Sensor for outdoor use



STEP 1 → Configuration of the Spectral Sensitivity



Please select one spectral sensitivity curve.

STEP 2 → Signal Output

Please tick your selection. The pin configuration is shown in the drawings on page 1.

<input checked="" type="checkbox"/> Output Type	Description	<input checked="" type="checkbox"/> Connection = "cable"	<input checked="" type="checkbox"/> Connection = "male plug"
<input type="checkbox"/> 0...5V	0...5V voltage output proportional to radiation input, supply voltage is 7..24VDC, current consumption is <30mA	<input type="checkbox"/> V ₀ =brown, V ₊ =white, Out=green, Shield=black	<input type="checkbox"/> V ₀ =1, V ₊ =2, Out=3
<input type="checkbox"/> 4...20mA	4...20mA current loop for PLC controllers. The current is proportional to the radiation, supply voltage is 24VDC	<input type="checkbox"/> V ₀ =brown, V ₊ =white	<input type="checkbox"/> V ₀ =1, V ₊ =2
<input type="checkbox"/> USB	The signal is transmitted via USB to a computer. Software is included.	----->	<input type="checkbox"/> Standard USB-A plug, 1,5 m cable
<input type="checkbox"/> Pulse	UV pulse counting for pulses > 30ns, signal out is 5V when the pulse intensity is above threshold and 0V when below.	<input type="checkbox"/> V ₀ =brown, V ₊ =white, Out=green, Shield=black	<input type="checkbox"/> V ₀ =1, V ₊ =2, Out=3

STEP 3 → Sensitivity

We configure your UV sensor for intensities across 10 orders of magnitude from 1nW/cm² to 10W/cm². For good dynamic behaviour the min and max. intensity at the probe position needs to be known as precisely as possible. Please fill that value, if known, into the box below. If only a rough estimate is possible, please estimate it in the range selection fields. We will contact you for further refinement of the range.

max. radiation in mW/cm² or, if not precisely known, range estimation

- 1nW/cm² ... 10μW/cm² 10μW/cm² ... 100mW/cm² 100mW/cm² ... 10W/cm²

Probe mechanical design overview

Besides the ticked mechanical design of this datasheet other mechanical designs are available

<input checked="" type="checkbox"/> Type	Description
<input type="checkbox"/> UV-Surface	Standard surface-mount 180° FOV UV Sensor
<input type="checkbox"/> UV-Air	Standard axis oriented in-chamber UV Sensor
<input checked="" type="checkbox"/> UV-Cosine	Waterproof UV Sensor for outdoor use (this datasheet)
<input type="checkbox"/> UV-Water	10 bar water pressure proof
<input type="checkbox"/> UV-DVGW	UV Sensor for DVGW certified water purifiers
<input type="checkbox"/> UV-MINILOG	UV Datalogger with PC software
<input type="checkbox"/> TOCON-probe	Pre-amplified UV Photodetector in a M12x1 housing, only with voltage output available