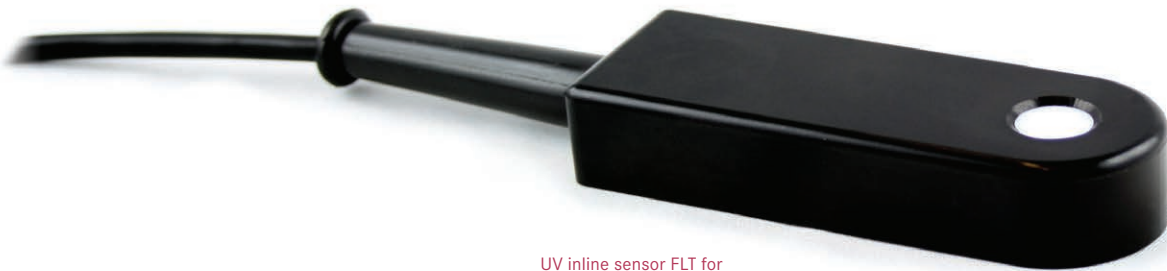


## UV inline sensor FLT



UV inline sensor FLT for radiometer and PLC

The UV inline sensor FLT is a compact, and precise measuring system for irradiance measurements in UV facilities, as

- packaging systems
- disinfection systems
- systems for surface activation
- UV curing systems
- Aging & test chambers

The system consists of a compact inline sensor for fixed installation or use with radiometer RMD / RM-12. Reference measurements are simple and precise due to identical shape of both sensor versions.

Our product range includes eight spectral ranges and four measuring ranges for the sensors. This allows the radiometric sensors to be optimally adapted for the application. The sensors are calibrated with traceability to PTB (Physikalisch Technische Bundesanstalt, the German national test authority); after being calibrated, they are supplied with a factory calibration certificate.

The radiometer RM-12 is a precise, hand-held device for measuring irradiances and illuminances. Compared with the RMD, the RM-12 features a higher resolution, an extended measuring range, a PC interface and illuminated graphic displays.

For small control tasks, the inline sensor FLT can be connected to a panel meter, like RM-32. The RM-32 shows the current irradiance on a 3.5-digit digital display and offer potential-free relays contacts with adjustable switching thresholds for warning and alarm signals.

Applications:

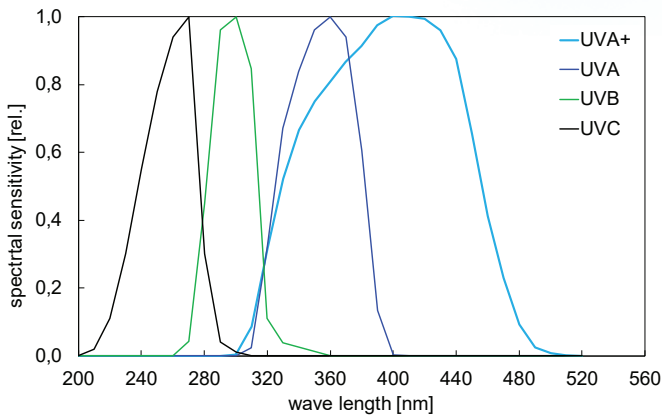
- UV and illumination sensors for PLC
- Inline and reference measurements
- Precise measurement of irradiance

### HIGHLIGHTS

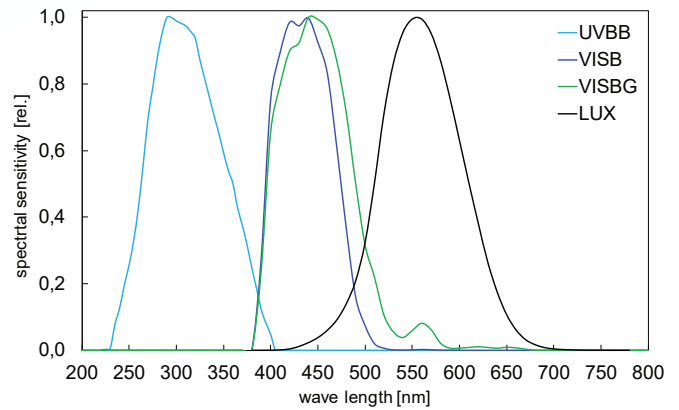
- Direct PLC operation
- Long-term stability
- Eight spectral ranges
- Four measurement ranges



## TECHNICAL DATA



Spectral sensitivity UVA+, UVA, UVB and UVC FLT sensors



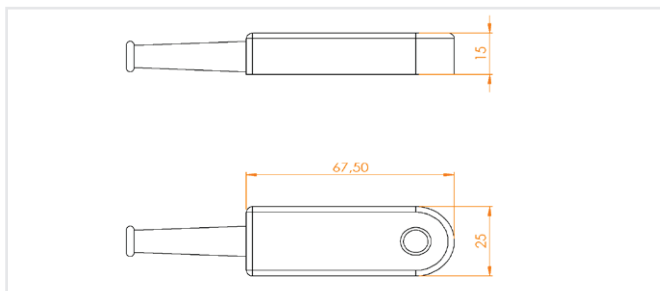
Spectral sensitivity UVBB, VISB, VISBG and VISL FLT sensors

## COMMON TECHNICAL DATA

<b>Measurement range</b>	0 - 200 mW/cm <sup>2</sup>
	0 - 20 mW/cm <sup>2</sup> (opt.)
	0 - 2 W/cm <sup>2</sup> (opt.)
	0 - 20 W/cm <sup>2</sup> (opt.)
<b>Dimensions</b>	68 x 25 x 15 mm
<b>Weight</b>	~ 70 g
<b>Operation temperature</b>	0 to 60 °C
<b>Storage temperature</b>	-10 to 60 °C
<b>Humidity</b>	< 80% non-condensing

## TECHNICAL DATA FLT-PLC

<b>Operation voltage</b>	24 V
<b>Current input</b>	< 15 mA
<b>Signal output</b>	0 - 10 V
<b>Cable</b>	2 m, opt. up to 10 m
<b>Cable, colours</b>	blue = 0 V DC / GND
	red = 24 V supply voltage
	yellow = signal high
	green = signal low



Dimensions inline sensor FLT

## SENSOR SPECTRAL RANGES

<b>UVC</b>	200 - 280 nm
<b>UVB</b>	280 - 315 nm
<b>UVA</b>	315 - 400 nm
<b>UVA+</b>	330 - 455 nm
<b>UVBB (broad-band)</b>	230 - 400 nm
<b>VISB</b>	400 - 480 nm
<b>VISBG</b>	400 - 570 nm
<b>LUX</b>	380 - 780 nm, V(λ)

## TECHNICAL DATA RADIOMETER TYPES

<b>Resolution</b>	0,1 mW/cm <sup>2</sup>
	0,01 mW/cm <sup>2</sup> (opt.)
	0,001 W/m <sup>2</sup> (opt.)
	0,001 mW/cm <sup>2</sup> (opt.)
<b>Cable</b>	~1,5 m, optional up to 5 m

## PART NUMBERS

<b>Sensor FLT for RMD</b>	81044x
<b>Sensor FLT for RM-12</b>	81041x
<b>Sensor FLT for RM-22</b>	81042x
<b>Sensor FLT for PLC</b>	81043x
<b>sensor cable, add. meter</b>	920311

## SCOPE OF DELIVERY

FLT sensor, factory calibration certificate

Please specify sensor, spectral range, measuring range when ordering.