



# Radiometer UV Sensors



Fig. 1: Radiometer UV sensor  
(Standard version on the left, IP65 on the right)

The radiometer UV sensors serve as measuring heads for the measurement of UV irradiances with the radiometers RM12 and RM21 as well as with the dose controller UV-MAT.

The integrated diffuser serves for the *cosinus* correction that is necessary at non-perpendicular irradiation. The sensors are calibrated with respect to a PTB (Physikalisch-Technische Bundesanstalt) reference.

The sensors can be supplied in a water jet protected version according to IP65 and with different measuring ranges. The integrated electronics generate a signal voltage that is transferred to the radiometer with low noise by a shielded cable.

## Technical Data

Measuring range: 200 mW/cm<sup>2</sup> (UVA/C)  
20 mW/cm<sup>2</sup> (UVB)

Resolution: 0.01 mW/cm<sup>2</sup> (UVA/C)  
0.001 mW/cm<sup>2</sup> (UVB)

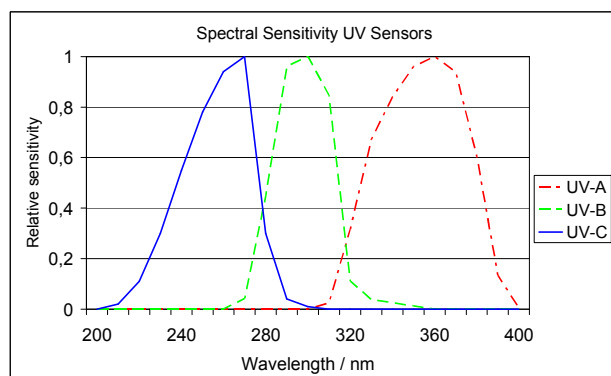
Spectral range: UVC 200 to 280 nm  
UVB 280 to 315 nm  
UVA 315 to 400 nm

Operation voltage: +/- 5 V  
Signal voltage: 0 to 2 V  
Operation temp.: 0 to 40 °C  
Storage temp.: -10 to 40 °C  
Humidity: < 80%

Non-condensing

Cable: 5-pole, 2 m long

Dimensions: Ø 40, h 35 mm  
IP65: Ø 50, h 47 mm



Weight: 150 g, IP65: 280 g

Fig. 2: Spectral sensitivity

## Part numbers

RM sensor UVC	811010
RM sensor UVB	811020
RM sensor UVA	811030
RM sensor UVC IP65	811212
RM sensor UVB IP65	811220
RM sensor UVA IP65	811230