



# UV-VIS Radiometer RM-12



Fig. 1: UV-VIS radiometer RM-12 with sensor

The radiometer RM-12 is a precise, hand device for measuring irradiances and illuminances. Different UV and visible spectral ranges can be measured with the respective sensors. Sensors evaluating biological effects of irradiation are also available.

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 IP65 and with different measuring ranges.

Applications: Measurement of light sources and irradiation systems, transmission measurements, UV radiation safety.

## Technical Data

Measuring range:	200 mW/cm <sup>2</sup> (UV-C/A, VISB/BG) 20 mW/cm <sup>2</sup> (UV-B) 200 klx (VISL)
Resolution:	0.1 mW/cm <sup>2</sup> (UV-C/A, VISB/BG) 0.01 mW/cm <sup>2</sup> (UV-B) 0.1 klx (VISL)
Spectral ranges:	UV-C 200 to 280 nm UV-B 280 to 315 nm UV-A 315 to 400 nm VISB 400 to 480 nm VISBG 400 to 570 nm VISL V(λ)
Dimensions:	160 x 85 x 35 mm
Weight:	300 g
Power supply:	9 V battery
Battery lifetime:	about 50 hours
Operation temp.:	0 to 40 °C
Storage temp.:	-10 to 40 °C
Humidity:	< 80% Non-condensing
Sensor connector:	5-pole plug

## Part numbers

Radiometer RM-12 (Measuring device without sensor)	821200
RM sensor UV-C	811010
RM sensor UV-B	811020
RM sensor UV-A	811030
RM sensor VISB	811040
RM sensor VISBG	811042
RM sensor VISL	811090
Transport box	921000

For sensor descriptions and part numbers of IP65 protected sensors see product sheets „Radiometer UV/VIS Sensors“.