



Measurement Equipment Reference Radiometer RRM According to DVGW and ÖNORM



regularly:
reference check of UV value

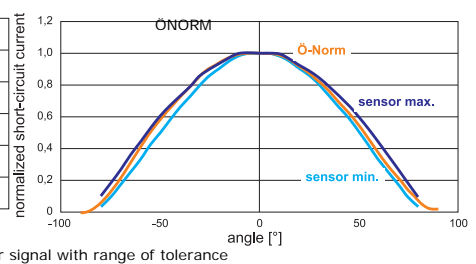
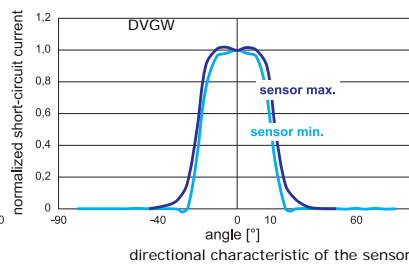
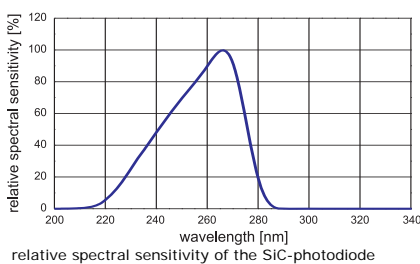
Features

- ⇒ for checking unit sensors according to DVGW / ÖNORM standard
- ⇒ consists of a measurement amplifier with display unit and sensor
- ⇒ radiometer is calibrated at $\lambda=253,7\text{nm}$ in reference to an absolutely calibrated detector that is traceable to a national standard

radiometer types	included sensors	aperture angle	spectral sensitivity	calibration wavelength	calibration standard
RRM-DVGW	1 DVGW sensor	40°	220...290nm	254nm	DVGW W294-3
RRM-DVGW 160°	1 DVGW sensor 160°	160°	220...290nm	254nm	DVGW W294-3
RRM-ÖNORM	1 ÖNORM sensor	160°	220...290nm	254nm	ÖNORM M5873-1
RRM-DVGW + ÖNORM	1 DVGW sensor 1 ÖNORM sensor	40° 160°	220...290nm 220...290nm	254nm 254nm	DVGW W294-3 ÖNORM M5873-1

Technical Specification

power supply:	9V battery type 6F22 or similar	operating temperature:	0...40°C	sensor body material:	stainless steel 1.4404
status indication:	LCD 3,5 digits	handling:	hold function to be activated with main switch at left side of case (off - on - hold) reference (DVGW/ÖNORM) selectable with rotary switch measurement range selectable with rotary switch		
measurement range:	20 / 200 / 2000 / 20000 W/m ²	dimensions (w/h/d):	(80/44/140)mm	weight:	250g
mounting characteristics	use of an DVGW or ÖNORM compliant measurement window MF001 is mandatory (see page no. 89)				



calibration:

- source of radiation: Hg-low-pressure radiator, quasi-parallel radiation (using sufficient distance and screen)
- calibration of sensor at 1W/m²
- calibration of amplifier linearity electronically
- reference plane is the surface of the sensor input (quartz window)
- calibration by substitution with calibrated reference diode (SiC / 1mm²; valid calibration from PTB, Berlin)
- total error of calibration: 6%

Note:

For ensuring measuring precision recalibration is recommended once per year.

For use in dry environment only!