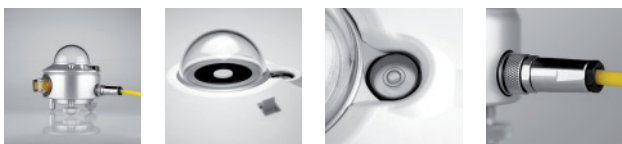


CUV5



CUV5 shares features with the CMP range of pyranometers and can be used with the same accessories. It measures the total UV irradiance of the UVA and UVB components.

It is suitable for use in all environments. Adjustable feet and a bubble level are used to ensure that the radiometer is horizontal and a snap-on sun shield provides protection. The instrument is kept dry internally by an easily removable desiccant cartridge.

CUV5 has a glass dome with very good UV transmission and a specially shaped diffuser to provide excellent directional response. The waterproof connector has gold-plated contacts and is fitted with 10 m of high quality signal cable as standard. The detection system includes optical filters and a photo-diode and CUV5 does not require power to operate.

CUV5 is optimised for the measurement of total UV outdoors, under natural sunlight, where the irradiance is not likely to exceed 100 W/m². It is not possible to derive the separate components of UVA and UVB from CUV5 measurements, for this the UVS models are required.

Specifications	
Spectral range (50 % points)	300 to 385 nm
Spectral range (overall)	280 to 400 nm
Spectral selectivity (312 to 382 nm)	< 20 %
Sensitivity	300 to 500 $\mu\text{V}/\text{W}/\text{m}^2$
Impedance	Typically 10 K Ω
Expected output range (0 to 100 W/m ²)	0 to 50 mV
Maximum UVA/UVB irradiance	400 W/m ²
Response time (95 %)	< 1 s
Non-stability (change/year)	< 5 %
Non-linearity (0 to 100 W/m ² , ref. 50 W/m ²)	< 1 %
Directional response (up to 70 ° with 100 W/m ² UV beam)	< 5 %
Temperature response	< 0.3 %/°C
Field of view	180 °
Accuracy of bubble level	< 0.1 °
Detector type	Photo-diode with filter
Operational temperature range	-40 °C to +80 °C
Storage temperature range	-40 °C to +80 °C
Humidity range	0 to 100 % non-condensing
Ingress Protection (IP) rating	67

Part number	Instrument
0364910-002	CUV5 Broadband UV Radiometer • 10 m cable
0364910-000	CUV5 Broadband UV Radiometer • no plug, no cable
0364910-702	CUV5 Broadband UV Radiometer • METEON • 10 m cable
0364910-700	CUV5 Broadband UV Radiometer • METEON • no plug, no cable
0364910-802	CUV5 Broadband UV Radiometer • AMPBOX • 10 m cable
0364910-800	CUV5 Broadband UV Radiometer • AMPBOX • no plug, no cable
Note: AMPBOX is adjusted so that 4 to 20 mA output = 0 to 100 W/m ² For measurements in test chambers, 0 - 240 W/m ² can be specified	

Part number	Accessories
2643960	Desiccant Refill Pack Contains 10 sachets
See accessories	CVF4 Ventilation Unit Recommended to reduce offsets and frequency of dome cleaning
0362700	CMF1 Mounting Fixture For 1 or 2 unventilated radiometers (1 upper / 1 lower) Diameter 88 mm. Mounting rod 350 mm long x 16 mm \varnothing
0362703	CMF4 Mounting Fixture For 1 or 2 ventilated or unventilated radiometers (1 upper / 1 lower) Length 375 mm, width 280 mm. Mounting rod 350 mm long x 20 mm \varnothing
0369701	CMB1 Mounting Bracket In combination with mounting rod for easy attachment to a pole or a wall
0346900	CM121B Shadow Ring for unventilated radiometers Manually adjusted device provides diffuse sky irradiance measurement Note: CM121B can not be used with CVF4 Ventilation Unit
0346901	CM121C Shadow Ring for ventilated radiometers Manually adjusted device provides diffuse sky irradiance measurement Mounts the radiometer at the correct height when used with a CVF4