



Kipp & Zonen SUV-E UV Radiometer

Product #:

0387930

USD Price:

Contact Hach

The SUV-E measures according to ISO 17166:1999 and CIE/S 007/E-1999 the erythemally active UV radiation that causes harm to human skin. It converts the irradiance in W/m^2 into the UV Index for public health information.

Ultraviolet (UV) radiation is part of the Sun's light spectrum that reaches the earth. UV radiation breaks down into wavelengths that are invisible to the naked eye. There are three types of UV rays: UVA, UVB and UVC. They decrease in length from A to C but increase in intensity, meaning that the shorter the wavelength, the more potential for damage. Fortunately, only UVA and UVB rays can penetrate the earth's atmosphere.

UV spectrum

Measurements are done according to ISO 17166:1999

Smart interface

Modbus RTU interface, wide temperature correction range and very low power consumption. Both digital and analog outputs available. No need to adjust data logger after recalibration.

Minimized maintenance

No desiccant change for 10 years, best MTBF with 5 years warranty.

Specifications

Analog Outputs:	0 to 1 V
Digital Outputs:	2-wire RS-485 Modbus RTU
Directional Response:	< 2.5 % with 0.9 W/m^2 beam
Field-of-View:	180°
Input Voltage:	5 to 30 V
Maximum UVA/UVB Irradiance:	0.9 W/m^2
Non-linearity:	< $\pm 1\%$
Output Range:	0 to 9 W/m^2
Power Consumption:	< 55 mW
Response Time:	< 0.2 s
Spectral Bandwidth:	280 to 315 nm
Temperature Range:	-40 to +158 °F (-40 to +70 °C)

Temperature Response:

< $\pm 1\%$

UV Band:

E