UVS-A-T

UVS instruments have a precision quartz dome and specially shaped diffuser to provide class-leading directional response. The detection system includes optical filters a very sensitive phosphor and a photo-diode. The system is temperature stabilised at +25 °C to prevent changes in spectral response and sensitivity with variations in the ambient conditions. The signal output is amplified and the internal stabilisation temperature can be monitored.

Power and signal connections are via a waterproof plug with high quality UV resistant cable and the instrument is kept dry internally by an easily removable desiccant cartridge. UVS radiometers are supplied with comprehensive calibration files and the unique Kipp & Zonen UVIATOR software for improving the accuracy of measurements.

UVS-A-T Radiometer

UVS-A-T has a spectral response optimised for precise measurements of atmospheric UVA irradiance.

Specifications	
Spectral range	315 to 400 nm
Typical sensitivity	30 W/m²/V
Response time (95 %)	< 1.5 s
Non-stability (change/year)	< 3 %
Non-linearity (over full range)	< 1 %
Directional error (at 70 ° solar zenith angle)	< 2.5 %
Temperature dependence	Temperature stabilized at +25 °C, ± 2 °C
Operating temperature	-40 °C to +50 °C
Internal temperature output	~2.5 V @ +25 °C
Output range	0 to 3 V
Power supply	7 to 18 VDC / 8 W
UVIATOR software	Included, corrects for solar zenith angle and Ozone

Article	Part number
UVS-A-T UV Radiometer • 10 m cable	**0354920-002**
Options for UVS-A-T	
UVS-A-T UV Radiometer • 25 m cable	0354920-004
UVS-A-T UV Radiometer • plug only, no cable	0354920-008

Accessories for UVS-A-T	Part number
Desiccant Refill Pack, set of 10 packs	**2643951**
CVP 2 Power Supply 115 / 230V AC Power adaptor with 12 VDC output	**0349401**
Note: CVP 2 is not suitable for unprotected outdoor use	
CMF 2 Mounting Fixture For 1 or 2 UVS radiometers (1 upper / 1 lower) Diameter 220 mm. Mounting rod 350 mm long x 16 mm Ø	**0362701**
CMB 1 Mounting Bracket In combination with CMF mounting fixture for easy attachment to a pole or a wall	**0369701**

Software for UVS-A-T	Part number
UVIATOR software package on CD-ROM For older UVS radiometers	**0354120**
Increases accuracy of UV measurements by correcting error sources. When the calibration file for a particular UVS is imported, along with correctly formatted measurement data, UVIATOR automatically makes corrections for total column Ozone concentration (using online satellite data) and for air-mass.	
Note: UVIATOR is supplied included with all new UVS radiometers	

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