

LPUVA02



LPUVA02 – UVA RADIOMETER

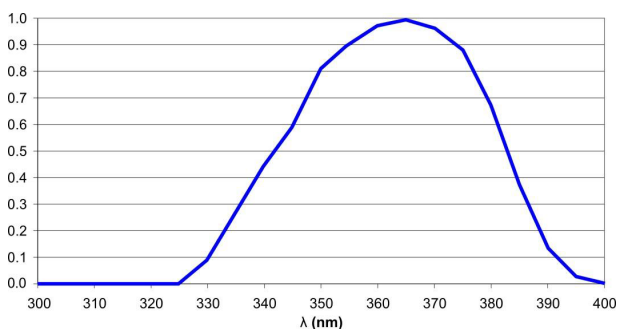
The **LPUVA02** radiometer measures global irradiance on a flat surface in the **UVA spectral range**. Global irradiance is the sum of direct solar irradiance and diffuse irradiance. The instrument can also be used to monitor indoor UVA emissions.

A solid-state sensor and dedicated optical filters provide a spectral response centred at **365 nm**. The 50 mm dome protects the sensor from weather, while the diffuser and housing support a response close to the cosine law.

CALIBRATED UVA MEASUREMENT

Each radiometer is individually factory calibrated by comparison with the primary standard of the Senseca metrology laboratory, using the 365 nm emission line of a suitably filtered Xe-Hg lamp. The individual calibration factor is shown on the instrument and in the Calibration Report.

The family is available with passive mV, 4...20 mA and voltage outputs. For all active analog versions, the output range corresponds to 0...200 W/m².



LPUVA02 relative spectral response

Technical specifications	
Measuring range	0...200 W/m ²
Typical sensitivity (passive)	70...200 μV / W/m ²
Viewing range	2π sr
Spectral range	342...384 nm (1/2) 330...393 nm (1/10) 320...400 nm (1/100) Peak: 365 nm
Response time	<0.5 s (95%)
Directional response (cosine law)	<8% (0...80°)
Long-term instability (1 year)	< 3 %
Non-linearity	< 1 %
Temperature response	<0.1%/°C
Impedance (passive version)	3 kΩ
Connection	4-pole M12
Operating temperature	-40...+80 °C
Weight	Approx. 900 g

ORDERING CODES

Radiometer versions		
Code	Output	Power supply
LPUVA02	Passive mV	Not required
LPUVA02AC	4...20 mA, 2-wire	10...30 Vdc
LPUVA02AV1	0...1 V	10...30 Vdc
LPUVA02AV5	0...5 V	10...30 Vdc
LPUVA02AV	0...10 V	15...30 Vdc

Standard supply - Each radiometer is supplied with shade disk, silica-gel cartridge, 2 spare silica-gel sachets, levelling device, Calibration Report and M12 female free connector (only when an optional cable is not ordered).

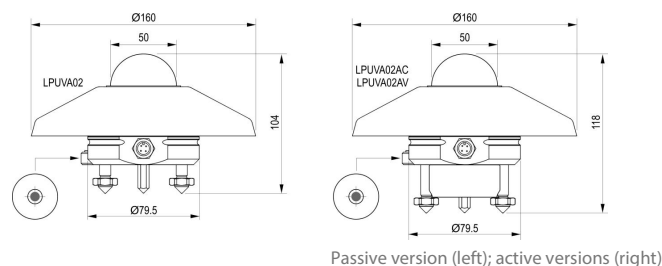
Fixing accessories	
LPS1	Fixing bracket for Ø30...50 mm mast; installation on horizontal or vertical mast.

Installation cables	
CPM12AA4.5	4-pole M12 cable, open wires, 5 m.
CPM12AA4.10	4-pole M12 cable, open wires, 10 m.

Connection notes - The passive LPUVA02 typically provides less than 50 mV and requires no power supply. For the 4...20 mA version, maximum load resistance is 500 Ω. For voltage versions, minimum load resistance is 100 kΩ.

Spare parts	
LPSP1	UV-resistant solar radiation protection screen.
LPG	Silica-gel, 5 sachets.
LPSG	Desiccant cartridge, complete with O-ring and cap.

Dimensions (mm)



Passive version (left); active versions (right)