

## Weather Station with a Pyranometer

### Precise measurements of irradiance

The Weather Station provides data on air pressure, wind direction and speed and humidity measurement results for the local prevailing overall irradiance. The integrated CMP3 pyranometer measures the amount of solar irradiation. Measuring the local irradiance provides information on the influence of weather conditions on the PV plant's performance. The data from the Weather Station is used in the Solar-Log™ WEB "Commercial Edition".



Measurement	Measuring Range	Measuring Method
Pyranometer	1,400 W/m <sup>2</sup> ; spectral range (50%): 300 – 2800 nm	Kipp & Zonen CMP3
Ambient temperature	-50 °C – +60 °C	NTC
Humidity	0 – 100 %	Capacitive
Air pressure	300 – 1,200 hPa	MEMS capacitive
Wind direction	0 – 359.9 °	Ultrasound
Wind speed	0 – 75 m/s	Ultrasound

### Technical data

Power supply	24 Vdc +/- 10 %
Power consumption	20 VA at 24 V
Connection	RS485
Protection class	IP66
Dimensions in mm	Diameter: 150, Height: 332, Weight: 1.5 kg
Warranty	2 years
Article number	on request
Compatible pyranometer types	WS 301 UMB, WS 501 UMB