

Pyranometer CMP 10

The global radiation results from the sum of direct radiation and diffuse radiation. The WMO-recommended measuring value transmitter meets the ISO 9060 -classification "Secondary Standard" Adjustable feet and a level allow an easy horizon-adjustment. Delivery includes calibration certificate.

Specification

Part number: 7.1415.01.110

Radiation

Measuring range	0 ... 4000 W/m ²
Sensitivity	7 ... 14 μV/W/m ²
Typ. Signal output	0 ... 15 mV
Spectral range	285 ... 2800 nm
Non-linearity	0.2 % @ 1000 W/m ²
Internal resistance	10 ... 100 Ω
Response time	1.7 sec @ 63 % vom Endwert 5 sec @ 95 % vom Endwert
Sensor type	Thermo-element mit 32 Einzelelementen

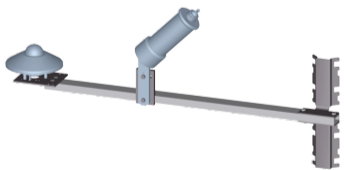
General


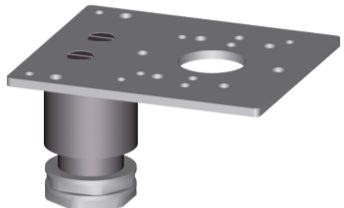
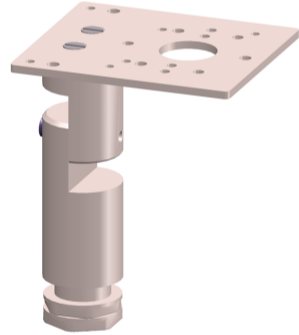
Ambient temp.	-40 ... +80 °C
Electr. connection	Without cable
Dimension	Ø 150 x 92 mm
Weight	0.9 kg

Versions

No other versions of this product are available.

Accessories

Product	Product name	Brief description
	Traverse 0,8 m 4.3171.40.002	For mounting of a Pyranometer CMP11 / 6 / 3 And a sunshine duration sensor-CSD3 onto a mast. General Clamping range Ø 48 ... 102 mm Sensor distance 0.4 / 0.8 m from mast Material Aluminium / Stainless steel Weight 1 kg

	<p>Hanger 1 m (for radiation sensors) 4.3185.xx.009</p>	<p>The hanger is used for laterally mounting of a radiation- or brightness transmitter onto a mast.</p> <p>General</p> <p>Length 1 m</p> <p>Material Aluminium</p> <p>Tube diameter Ø 50 mm</p> <p>Weight 1.8 kg</p>
	<p>Adapter Compact 506345</p>	<p>The adapter serves for mounting a radiation transmitter, baro transmitter or brightness transmitter onto a traverse (4.3171.30.000, 4.3171.40.000) or holder (506 347).</p> <p>General</p> <p>Material Aluminium, anodized</p> <p>Dimension 100 x 115 x 65 mm</p> <p>Weight 0.5 kg</p>
	<p>Adapter Compact 0 ... 90 ° adjustable 508850</p>	<p>The adapter serves for mounting a radiation transmitter, baro transmitter or brightness transmitter onto a traverse (4.3171.30.000, 4.3171.40.000) or holder (506 347).</p> <p>General</p> <p>Material Aluminium, anodized</p> <p>Dimension 100 x 115 x 65 mm</p> <p>Weight 0.5 kg</p> <p>Function 0 ... 90 ° adjustable</p>



Universal Amplifier
7.1415.00.200

The Universal Amplifier serves for the connection of various sensors with voltage-, or PT100 output.

Data output digital

Interface RS485 / RS422
Baudrate 1200 ... 115200 Baud

Data output analog

Chanel 3
Output parameters 0 ... 1 V, 0 ... 5 V,
0 ... 10 V, 4 ... 20 mA,
0 ... 20 mA
Resolution 1/10000 FS

Data input analog

Chanel 4
Meas. range 0.1 ... 1V
resolution 1 µV
switchable to -1 ... +10 V

Alternatively, each channel is switchable to PT 100:
max. -99.0 ... +99.0 °C
PT100 resolution: 1/10, 1/100, 1/1000 °C, settable

General

Power supply 7 ... 24 V DC
Ambient temp. -40 ... +60 °C
Electr. connection Cable gland and terminal strip
Protection IP 65
Dimension 120 x 80 x 55 mm
Weight 0.25 kg
Material housing Polycarbonate

Preamplifier
7.1415.01.841

Instrument for transforming small mV-signals from the radiation sensor into a standardized voltage signal.

Data output analog

Chanel	1
Output type	4 ... 20 mA
Output range	0 ... 1600 W/m ²

Data input analog

Chanel	1
Input type	-10 ... 75 mV

General

Power supply	7.5 ... 45 V DC (via 4 ... 20 mA lines)
Ambient temp.	-40 ... +85 °C
Electr. connection	2 x cable gland
Protection	IP 66
Dimension	64 x 98 x 34 mm
Weight	0.3 kg
Matirial housing	aluminium, powder coated

