

## Pyranometer CMP 3

The WMO-recommended measuring value transmitter meets the ISO 9060 –classification

“First class“ Adjustable feet and a level allow an easy horizon-adjustment. Delivery includes calibration certificate

### Specification

**Part number: 7.1415.03.103**

#### Radiation

Measuring range	0 ... 2000 W/m <sup>2</sup>
Sensitivity	5 ... 20 µV/W/m <sup>2</sup>
Typ. Signal output	0 ... 15 mV
Spectral range	310 ... 2800 nm
Non-linearity	2.5 % @ 100 ... 1000 W/m <sup>2</sup>
Internal resistance	20 ... 200 Ω
Response time	18 sec @ 95 % vom Endwert
Sensor type	Thermo-element mit 64 Einzelelementen

#### General

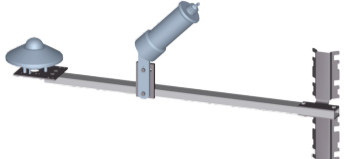

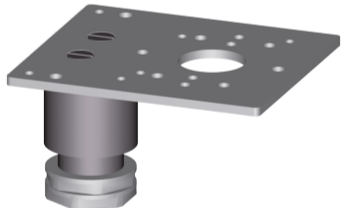
Ambient temp.	-40 ... +80 °C
Electr. connection	Without cable
Dimension	∅ 150 x 92 mm
Weight	0.9 kg

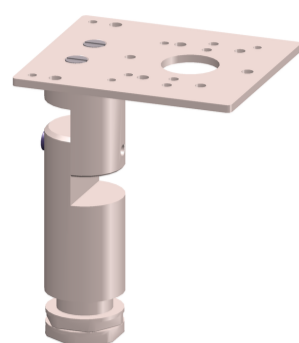
### Versions

No other versions of this product are available.

### Accessories

Product	Product name	Brief description
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	<p>Traverse 0,8 m 4.3171.40.002</p>	<p>For mounting of a Pyranometer CMP11 / 6 / 3 And a sunshine duration sensor-CSD3 onto a mast.</p> <p><b>General</b></p> <p>Clamping range                    Ø 48 ... 102 mm</p> <p>Sensor distance                    0.4 / 0.8 m from mast</p> <p>Material                               Aluminium / Stainless steel</p> <p>Weight                                 1 kg</p>
	<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><b>General</b></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 (506347).</p> <p><b>General</b></p> <p>Material                               Aluminium, anodized</p> <p>Dimension                            100 x 115 x 65 mm</p> <p>Weight                                 0.5 kg</p>



Adapter  
Compact 0 ... 90  
° adjustable  
508850

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 (506347).

**General**

Material	Aluminium, anodized
Dimension	100 x 115 x 65 mm
Weight	0.5 kg
Function	0 ... 90 ° adjustable



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  
Matirial 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 <sup>2</sup>

**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

