

## RADIATION MEASURING TECHNOLOGY

### Pyranometer CMP 3

Part number: 7.1415.03.003

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: 7.1415.03.003

#### 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	plug with 10 m 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
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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

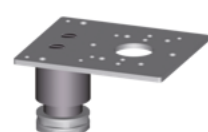


Hanger 1 m ( for radiation sensors )  
4.3185.xx.009

The hanger is used for laterally mounting of a radiation- or brightness transmitter onto a mast.

General

Length	1 m
Material	Aluminium
Tube diameter	Ø 50 mm
Weight	1.8 kg



Adapter Compact  
506345

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).

General

Material	Aluminium, anodized
Dimension	100 x 115 x 65 mm
Weight	0.5 kg



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 (506 347).

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 $\mu$ V switchable to -1 ... +10 V  Alternatively, each channel is switchable to PT 100: max. -99.0 ... +99.0 $^{\circ}$ C PT100 resolution: 1/10, 1/100, 1/1000 $^{\circ}$ C, settable

General

Power supply	7 ... 24 V DC
Ambient temp.	-40 ... +60 $^{\circ}$ 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 <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
Material housing	aluminium, powder coated

