

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

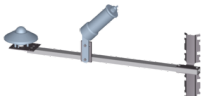
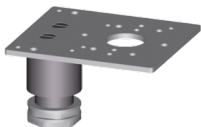
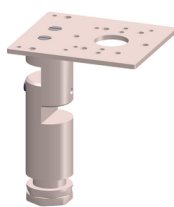
Part number: 7.1415.03.003	
Radiation	
Measuring range	0 ... 2000 W/m²
Sensitivity	5 ... 20 µV/W/m²
Typ. Signal output	0 ... 15 mV
Spectral range	310 ... 2800 nm
Non-linearity	2.5 % @ 100 ... 1000 W/m²
Internal resistance	20 ... 200 Ω
Response time	18 sec @ 95 % vom Endwert
Sensor type	Thermo-element 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. <table><tr><td colspan="2">General</td></tr><tr><td>Clamping range</td><td>Ø 48 ... 102 mm</td></tr><tr><td>Sensor distance</td><td>0.4 / 0.8 m from mast</td></tr><tr><td>Material</td><td>Aluminium / Stainless steel</td></tr><tr><td>Weight</td><td>1 kg</td></tr></table>	General		Clamping range	Ø 48 ... 102 mm	Sensor distance	0.4 / 0.8 m from mast	Material	Aluminium / Stainless steel	Weight	1 kg
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	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. <table><tr><td colspan="2">General</td></tr><tr><td>Length</td><td>1 m</td></tr><tr><td>Material</td><td>Aluminium</td></tr><tr><td>Tube diameter</td><td>Ø 50 mm</td></tr><tr><td>Weight</td><td>1.8 kg</td></tr></table>	General		Length	1 m	Material	Aluminium	Tube diameter	Ø 50 mm	Weight	1.8 kg
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	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). <table><tr><td colspan="2">General</td></tr><tr><td>Material</td><td>Aluminium, anodized</td></tr><tr><td>Dimension</td><td>100 x 115 x 65 mm</td></tr><tr><td>Weight</td><td>0.5 kg</td></tr></table>	General		Material	Aluminium, anodized	Dimension	100 x 115 x 65 mm	Weight	0.5 kg		
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	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). <table><tr><td colspan="2">General</td></tr><tr><td>Material</td><td>Aluminium, anodized</td></tr><tr><td>Dimension</td><td>100 x 115 x 65 mm</td></tr><tr><td>Weight</td><td>0.5 kg</td></tr><tr><td>Function</td><td>0 ... 90 ° adjustable</td></tr></table>	General		Material	Aluminium, anodized	Dimension	100 x 115 x 65 mm	Weight	0.5 kg	Function	0 ... 90 ° adjustable
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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 μ V 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 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
Material housing	aluminium, powder coated