RADIATION

Pyranometer CMP 11

Part number: 7.1415.01.001

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: 7.1415.01.001

Radiation

Measuring range	0 ... 4000 W/m²
Sensitivity	7 ... 14 µV/W/m²
Typ. Signal output	0 ... 15 mV
Spectral range	310 ... 2800 nm
Non-linearity	‹0.2 % @ 100 ... 1000 W/m²
Internal resistance	10 ... 100
Response time	‹1.7 sec @ 63 % vom Endwert
	‹5 sec @ 95 % vom Endwert
Sensor type	Thermo-element mit 32 Einzelelmenten

General

Ambient temp.	-40 ... +80 °C
Electr. connection	plug with 10 m cable
Dimension	Ø 150 x 92 mm
Weight	0.9 kg
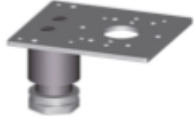
Versions

No other versions of this product are available.

Accessories

Product	Product name	Brief description

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

SCAN for more information:

Australian Sales and Support.

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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

Chanels	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

Chanels	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

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Benchmark Monitoring

Preamplifier 7.1415.01.841	Instrument for transforming small mV-signals from the radiation sensor into a standardized voltage signal.	

Data output analog

Chanels	1
Output type	4 ... 20 mA
Output range	0 ... 1600 W/m²

Data input analog

Chanels	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

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