

RADIATION

Pyranometer CMP 10

Part number: 7.1415.01.010

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

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Radiation		
Measuring range	0 4000 W/m²	
Sensitivity	7 14 μV/W/m²	
Typ. Signal output	0 15 mV	
Spectral range	285 2800 nm	
Non-linearity	<0.2 % @ <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

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	Traverse 0,8 m 4.3171.40.002	For mounting of a Pyranometer mast.	CMP11 / 6 / 3 And a sunshine duration sensor-CSD3 onto a	
8		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	The hanger is used for laterally mounting of a radiation- or brightness transmitter onto a mast. General		
)	Length	1 m	
	4.3185.xx.009	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	
E. 12.17	Adapter Compact	The adapter serves for mounting	g a radiation transmitter, baro transmitter or brightness	
	0 90 ° adjustable 508850	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.

,			
ata output digital			
nterface	RS485 / RS422		
audrate	1200 115200 Baud		
ata output analog	,		
hanels	3		
utput parameters	0 1 V, 0 5 V,		
	0 10 V, 4 20 mA,		
	0 20 mA		
	Resolution 1/10000 FS		
ita input analog			
anels	4		
as. range	0.1 1V		
	resolution 1 μV		
	switchable to -1 +10 V		
	Alternatively, each		
	channel is switchable to PT 100:		
	max99.0 +99.0 °C		
	PT100 resolution: 1/10, 1/100, 1/1000 °C, settable		
neral			
wer supply	7 24 V DC		
bient temp.	-40 +60 °C		
ctr. connection	Cable gland and terminal strip		
tection	IP 65		
nension	120 x 80 x 55 mm		
eight	0.25 kg		
atirial housing	Polycarbonate		





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Preamplifier
7.1415.01.841

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

Data output analog				
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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