

RADIATION

Sunshine Duration Sensor CSD 3

Part number: 7.1421.03.000

The sunshine duration is defined as period, in which the direct solar radiation exceeds the threshold of $>120 \text{ W/m}^2$. The sensor sends a digital Yes/ No-information for the sunshine duration, and a voltage as information for the direct radiation. Connectable heating avoids a possible dewing on the instrument. Delivery includes a test certificate.



Specification

Part number: 7.1421.03.000

Direct radiation

Measuring range	0 ... 1000 W/m ²
Electrical output	1 mV/W/m ²
Accuracy	±10% @ 1000 W/m ²

Sunshine duration

Measuring range	Yes @ $> 120 \text{ W/m}^2$ No @ $< 120 \text{ W/m}^2$
Electrical output	1 V ±0.1V @ Yes 0 V ±0.1V @ No
Accuracy	±10%

Operating voltage

without heating	9 ... 15 V DC / 0.1 W
heating level 1	9 ... 15 V DC / 1 W
heating level 2	9 ... 15 V DC / 10 W

General


Spectral range	400 ... 1100 nm
Ambient temp.	-30 ... +70 °C
Electr. connection	Plug with 15 m cable
Dimension	294 x 131 mm
Weight	1.2 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	

