



Mod. RSG2std

Secondary Standard (Class A)
Global Solar Radiation Sensor - Pyranometer

Highlighted specs

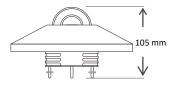
- Class A Thermopile Pyranometer low offset (<7W/m²)
- ISO9060 and WMO standards compliant
- Compact and light design in aluminum IP67
- Range 0÷2000 W/m²
- Spectral range 0,3μm÷3μm (AirMass AM1.5G Solar Radiation)
- High sensibility ~10μV/(W/m²)
- According to C € norms

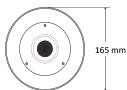
Class A (secondary standard) global solar radiation sensor (pyranometer) with double thermopile. Designed to measure the global component of the sunlight spectrum between 0.3 um - 3um, according to the cosine law. Compliant with WMO standard for environmental monitoring, it's also an ideal instrument on photovoltaic applications according to IEC-9060 and IEC-17025. A high quality instrument that, thanks the different types of standard signal output (voltage or current) or digital RS485 with ModBus (MCS option), can be easily interfaced with any acquisition system. Each instrument is supplied with calibration certificate, and relative instrumental constant. The sensor is available with heating and ventilation units (code VU), in accordance with IEC 61724-1

nge N			
9-	Max 2000 W/m² natural output; 0 ÷ 2000 W/m² normalized output		
ectral range	0,3µm ÷ 3µm		
pical Sensibility 1	10 μ V/(W/m 2) on 2 π sr		
oical signal output 1	10 mV / (kW/m²)		
solution <	< 2 W/m ²		
ponse time <	< 10sec		
ro offset <	$< 7 \text{ W/m}^2 \text{ (at 200 W/m}^2), < \pm 2 \text{ W/m}^2 \text{ (}\Delta\text{T} = 5\text{K/h)}$		
bility (long time – 1 year)	< ±0.8%		
sine response <	<±10 W/m ²		
mperature response (∆T 50K)	< 2%		
n linearity <	< ±0.5%		
response between 0 – 90°	< ±0.5%		
pected daily uncertainty	<2%		
pe of transducer	Double Thermopile		
nal output 1	10μV/W/m ² from thermopile, [0÷2Vdc, 4÷20mA or RS485 ModBus] with MCS option		
rking conditions	-40 ÷ +80°C		
tput resistance	< 900 ohm		
otections F	Polarity reverse and transient		
de of	Anodized aluminium and stainless steel		
wer supply and consumption (a	(auto power for N version), 10 ÷ 30Vdc <0,1W other versions		
ight	< 850g		

Size and connections

Pin	Wire	RSG2-N		
1	White	Out +		
2	Green	Out -		
3	Grey	GND		
4	Orange	Shield		





Order code

Sensor	Class A Global solar radiation sensor (Pyranometer) RSG2std		RSG2std			
=	0÷1Vdc			Α		
草	4÷20mA			В		
Output	RS485 / Modbus (MCS option)			С		
	Natural			N		
<u>es</u>	CS05 – Cable 5m sensor-datalogger				05	
Sor	CS10 – Cable 10m sensor-datalogger				10	
8	CSxx – Cable xx* m length, sensor-datalogger – to be specified at order				XX	
	SSU – Sensor support L=700-750mm					SSU
*0000	fithe length for no standard massures	ample of order code	DCCOote	В	10	0011

^{*}specify the length for no standard measures