



Mod. **RSG**

2nd Class (Class C) Global Solar Radiation Sensor - Pyranometer

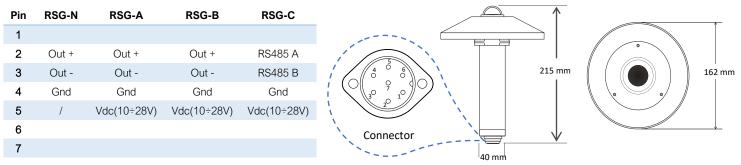
Highlighted specs

- 2nd Class (C Class) Thermopile Pyranometer low offset (<20W/m²)
- ISO9060 and WMO standards compliant
- Compact and light design in aluminium for hot and cold climates IP67
- Spectral range 0,3µm÷3µm (AirMass AM1.5G Solar Radiation)
- High sensibility ~10µV/(W/m2)
- According to C€ norms

Global solar radiation sensor (pyranometer) with thermopile,C class. Designed to measure the global component of the sunlight spectrum between 0.3 um - 3um, according to the cosine law. Compliant with WMO for environmental monitoring, is also an ideal instrument on photovoltaic applications according to IEC-9060 and IEC-17025. A quality instrument that, thanks the different types of standard signal output (voltage or current) or digital RS485 with ModBus, can be easily interfaced with any acquisition system. Each instrument is supplied with calibration certificate and relative instrumental constant.

Range	max 2000 W/m ² natural output; 0 ÷ 2000 W/m ² normalized output
Spectral range	0,3µm ÷ 3µm
Typical Sensibility	10 μ V/(W/m ²) on 2 π sr
Typical signal output	10 mV / (kW/m²)
Resolution	< 8 W/m ²
Reponse time	< 25sec
Zero offset	< 20 W/m ² (at 200 W/m ²); < ±6 W/m ² (Δ T = 5K/h)
Stability (long time – 1 year)	< ±2%
Cosine response	<±22 W/m ²
Temperature response (Δ T 50K)	< 8%
Non linearity	< ±2%
Tilt response between 0 – 90°	< ±4%
Expected daily uncertainty	<10%
Type of transducer	Thermopile
Signal output	10µV/W/m² from thermopile; 0÷2Vdc, 4÷20mA or RS485 ModBus
Working conditions	-40 ÷ +80°C
Output resistance	< 40 ohm
Protections	Polarity reverse and transient
Made of	Anodized aluminium and stainless steel
Power supply and consumption	(auto power for N version) 10 ÷ 30Vdc <0,1W other versions
Weight	< 600g

Size and connections



Order code

Sensor	Total solar radiation sensor (Pyranometer) Class C		RSG			
	0÷2Vdc			А		
Output	4÷20mA			В		
	RS485 / Modbus			С		
	Natural from thermopile			Ν		
Accessories	CS05 – Cable 5m sensor-datalogger				05	
	CS10 – Cable 10m sensor-datalogger				10	
	CSxx – Cable xx* m length, sensor-datalogger – to be specified at order				XX	
	SSU – Sensor support L=700-750mm					SSU
*speci	fy the length for no standard measures	example of order code	RSG	В	10	SSU