



Mod. PIR

Pireliometer (1st Class)

Highlighted specs

- High precision direct sun energy sensor
- Thermopile measuring system
- Compact and light design in aluminium
- WMO standards compliant
- Spectrum of radiation 250-4000 nm
- Easy to clean up and maintain
- According to **CE** norms

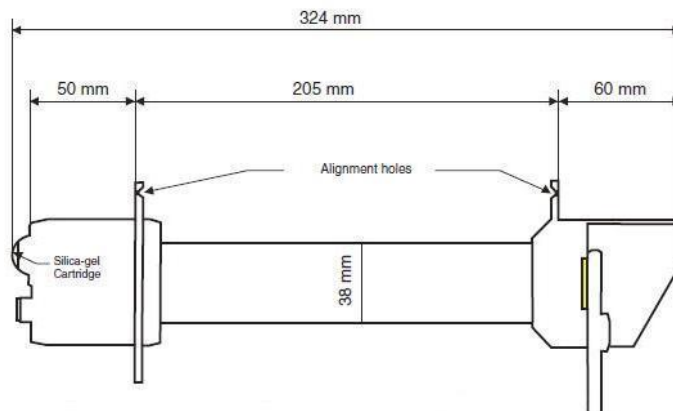
The pyrheliometer (First Class according to ISO 9060 classification) is an instrument for measurement of **direct solar irradiance** (Watt/m^2), using a thermopile.

The receiving surface must be placed (by a solar tracker or manually) perpendicularly to sun's rays. By using suitable diaphragms, **only the direct light reaches the surface of the sensor**. According to WMO (Seventh Edition 2008) and ISO 9060 regulations, **the pyrheliometer has a field of view of 5°**. Available also with **Modbus** interface on RS485 line.

Total length	32,5 cm
Operating range	0-2000W/m ² , 250-4000 nm
Field of view	5° according to WMO norms
Typical sensitivity	10 $\mu\text{V}/(\text{W/m}^2)$
Average accuracy	$\pm 0.5\%$
Transducer	Thermopile
Response time	< 9s
Standard signal output	10 $\mu\text{V}/\text{W/m}^2$ from thermopile, [0÷2Vdc, 4÷20mA or RS485 ModBus] with MCS option
Protections	Polarity reverse and transient
Output resistance	500 Ω / 1000 Ω
Made of	Aluminium alloy
Working conditions	-40 ÷ +80°C
Weight	1,5 kg

Size and connections

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



Order code

Sensor	Pireliometer	PIR	
Output	0÷1Vdc 4÷20mA RS485 / Modbus Natural from thermopile		A B C N
Accessories	CS05 – Cable 5m sensor-datalogger CS10 – Cable 10m sensor-datalogger CSxx – Cable xx* m length, sensor-datalogger – to be specified at order		05 10 xx

*specify the length for no standard measures

example of order code

PIR B 10