



SPR200-04 Compact sensor

APPLICATIONS

- Meteorology.
- Agriculture.
- Construction materials aging monitoring.
- Air pollution monitoring.
- Solar energy.

KEY FEATURES

- Designed on optical principle.
- No moving parts.
- No maintenance.
- Can work in any altitude.
- High sensitivity.
- Low power consumption.
- Light weight.
- Long service life.
- Compatible with Smartyplanet.



The *SPR200-04* solar radiation sensor is based on a principle of optical operation. It is used to measure solar radiation within the wavelength of 300-3000nm.

Depending on how the sensor is placed, the data it collects are from the radiation incident or reflecting on a plane or diffuse radiation.

These data can be analyzed using the **Smartyplanet web platform** which is fully compatible.

The solar radiation sensor is compact and lightweight.

It can be installed at any height. No maintenance required.

It is an ideal solution applicable to fields such as meteorology, construction, solar energy, etc.



Solar radiation sensor

Range	0-1500 W/m ²
Wavelength	300-3000 nm
Non-linearity	< ±3 %
Response time	≤5 s
Stability	±2%/year
Cosine correction	≤±10% (solar elevation angle=10°)
Temperature effect	±0,08% /°C



Mechanical construction

Material	Aluminum
Sensor weight	420 g
Transmission module weight	340 g
Power supply	5 V, 12-24 VDC



Environmental protection

IP Rating	IP-65
Operating temperature	-40 to +85 °C



Plug and play Installation

The design of this Station allows his installation under the concept 'to plug and play'. He places of simple form on posts, walls or poles, and his entail with the web of visualization is immediate and automatic.



Without complicated infrastructures

With the different models of station it will be able to create networks of sensors adapted to the needs of his sector, without need of complicated infrastructures not costly.



Better relation Cost - benefit

The new concept of station of sensors allows to have the best technology to monitor and to control his resources to a cost very lower than other existing alternatives on the market.



Visualization in web page

The control of the sensors is realized by means of a web application personalized with multiple functionalities as alarms, historical, multiple users, etc.. Accessible from any device connected to Internet.



Sensors Networks

The number of Stations to linking to his network is unlimited, being able to incorporate different models and configurations to form extensive networks that connect the information of his resources to Internet, to give response to the Smart cities of the future



Multiple sensors

There are multiple the precision sensors that can join. The model of Station selects depending on the type and I number of sensors that he needs.