



APPLICATIONS

- Alpine weather stations.
- Agriculture.
- Environmental monitoring.
- Hydrological monitoring.
- Solar panels.

KEY FEATURES

- Rugged design.
- Heated.
- Resistant to hostile conditions.
- High precision and reliability.
- Compatible with Smartyplanet.

SP230 Solar radiation sensor with heating system integrated



The SP230 heated pyranometer is the ideal solution for measuring solar radiation in locations with extreme weather conditions.

The design of this pyranometer includes a heating system of 0.2W. With this system the sensor is kept dry to minimize errors that may be caused by phenomena such as dew, frost, rain or snow that block the operation of the sensor.

The sensor is housed in a sturdy aluminum body and has a dome shape. The data collected by the sensor are accurate and reliable thanks to the system described.

The heated pyranometer is fully compatible with the **Smartyplanet web platform** so that the data collected by the sensor can be recorded and analyzed instantly.

Installation of the pyranometer is simple and the maintenance required is minimal.



Height snow sensor

Power supply	12 VDC for heater with a current draw of 15mA
Output (sensitivity)	0,2 mV/(W/m ²)
Calibration factor	5 (W/m ²)/ mV
Calibrated output range	0 to 350mV
Calibration uncertainty	±5%
Measurement repeatability	<1%
Long-term drift	<2%/year
Non-linearity	<1% up to 1750 W/m ²
Response time	<1ms
Field of view	180°
Spectral range	360 to 1120 nm
Directional response	± 5 % at 75° zenith angle
Temperature response	0.04 ± 0.04 % per °C



Mechanical construction

Weight	90 g
Dimensions	Diameter: 24mm Height: 28mm



Environmental protection

Operating temperature	-40 to +70°C
Operating humidity	0-100% HR
Submersible	30m

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.