



SPTS214 Weighing gauge for places with snow and wind conditions

APPLICATIONS

- Meteorological control.
- Monitoring of environmental disasters.
- Hydrological monitoring.
- Water supply system.

KEY FEATURES

- Various measures.
- Elimination of wind vibration and particles.
- RS485 output and SDI-12.
- Easy maintenance.
- On site precision evaluation and control.
- Local and remote diagnostics.
- Self-diagnosis and self-control.
- Heated.
- Option to measure more parameters: air temperature, rain detector, wind speed.



The *SPTS214* rain gauge is the ideal solution for measuring all types of precipitation in wind and snow conditions.


The parameters from which data are taken are: solid and liquid precipitation, rainfall intensity in one minute, total sum of precipitation, duration of precipitation.


Simple mechanical construction coupled with sophisticated firmware can guarantee perfect operation.

The rain gauge has a built-in heating system that ensures the accuracy of the data it collects at all times.

This data is registered and analyzed by the **Smartyplanet web platform** thanks to its full compatibility.

The maintenance of the sensor is minimal and its installation is simple.

 Mechanical construction	
Dimensions	Ø360 x 540 mm
Weight	8 kg
Supply	5 to 30 VDC / 4 mA máx.
Heating supply	10 to 30 VDC / 0,83 to 2,5 A
Max. Consumption	$V_{max}=30\text{ V}$, $I_{max}=300\text{ mA}$
Output	RS485, SDI-12
Orifice area	200 cm ²
Precipitation range	750 mm
Accuracy	0,1 %
Rain max. Intensity	120 mm/min
Resolution	0,001 mm
Measuring elements	Tension bridge
Air temperature measure	-40 to +70°C
Wind speed estimate	Optional
Wind correction	Yes
Wind protection	Yes

 Environmental protection	
Operating temperature	-40 to +70°C
Humidity	0 to 100%
IP Rating	IP65



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.