



SPR300-02 Compact sensor for dust measurement

APPLICATIONS

- Air quality monitoring.
- Smart home.
- Warehousing.
- Public place.
- Workshop.
- Clear room.

KEY FEATURES

- High sensitivity.
- Fast response.
- Low power consumption.
- Excellent stability.
- Long service life.
- Compatible with Smartyplanet.



The *SPR300-02* dust sensor is the ideal solution for determining the concentration of dust particles in the air.


Its operation is based on the principle of laser scattering.


The particles it detects must be at least 1 micron in size.

It has applications for the measurement of air quality.

There are two types, one designed for indoor environments and the other one for outdoor environments.

Thanks to its compatibility with the **Smartyplanet web platform**, the recorded data can be analyzed instantly.

 Dust sensor	
Range	0-1000 ug/m ³
Accuracy	±3 %FS @ 25°C
Response time	<90 s
Warm up time	3min
Power consumption	Max: 150 mA, Average: 90 mA
Stability	<±2%FS
Repeatability	<±1%FS

 Mechanical construction	
Supply	12-24 VDC
Output	4-20 mA, 0-5 V, 0-10 V, RS485

 Environmental protection	
Operating temperatura	-20°C to +50 °C @ 15-80%HR



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.