



SPR120-02 Ultrasonic wind speed and direction sensor

APPLICATIONS

- Environmental monitoring.
- Sea-going vessel.
- Bridge & tunnel.
- Solar and wind power generation.
- Wind resource assessment.
- Drilling platform.
- Automatic weather station.
- Agriculture.

KEY FEATURES

- Massive all-metal construction.
- No moving parts.
- Long service life.
- Strong anti-interference.
- High accuracy.
- Auto-heated function.
- Compatible with Smartyplanet.



The *SPR120-02* ultrasonic wind sensor is the ideal solution for analyzing wind speed and direction with high precision under extreme conditions.

The instrument is robust due to its metallic construction.

It integrates an automatic heating system that makes it capable of withstanding adverse conditions.

Its function is to collect data on the difference in propagation time in air. Once it captures the data, it transmits it directly to the **Smartyplanet web platform** and is analyzed.

This sensor is ideal for environmental and meteorological control.

	 Wind speed sensor	 Wind direction sensor
Range	0-60 m/s	0-360°
Resolution	0,1 m/s	0,1°
Accuracy	±(0,5+0,03V)m/s	±3°
Threshold	0,1 m/s	0,1°
Extreme wind speed	70m/s	

Mechanical construction

Structure material	Aluminum
Weight	2,5 kg
Supply	12-24 VDC
Working current	<200mA
Output	RS485, 4-20mA, 0-2V optional
Heating supply	24 VDC
Average heating current	<3A

Environmental protection

Ingress protection	IP-65
Operating temperature	-40 to +70 °C
Storage 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.