



## SPR520-01 Soil moisture & temperature sensor

### APPLICATIONS

- Agriculture irrigation.
- Greenhouse.
- Grass farm.
- Environment monitoring.
- Water conservation.
- Soil testing.

### KEY FEATURES

- High precision.
- Fast response.
- Soil properties affect little.
- Directly buried in soil.
- Widely used.



The *SPR520-01* soil temperature and humidity sensor is the ideal solution to know these two parameters of any type of soil.



It has applications in fields such as environmental control and agriculture, among others.

It is designed to take measurements in contact with soil. It can enter and detect measurements instantly or it can be buried in the soil and connected to a data logger.

The probe is constructed of stainless steel. This provides good accuracy and makes soil properties do not affect measurements.

The data is recorded and analyzed by the **Smartyplanet web platform** thanks to its compatibility.

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	 Moisture sensor	 Temperature sensor
Range	0-100%	-30°C a +70°C
Accuracy	±3 %	±0,5 %
Response time	<1s	

### Mechanical construction

Probe materials	Stainless steel 316L
Probe size	Diameter: 3mm, Height: 55mm
Housing material	ABS
Housing size	71 x 45 x 16 mm
Supply	12-24 VDC
Output	4-20 mA, 0-5 V, RS485

### Environmental protection

Operating temperatura	-40°C to +80°C
IP Rating	IP67



#### 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.