



SPR510-01 Soil moisture sensor

APPLICATIONS

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

KEY FEATURES

- Four 316L needle probe.
- High stability.
- High accuracy.
- Fast response.
- Easy installation.



The *SPR510-01* soil moisture sensor is based on FDR (Frequency Domain Reflectometry) principle.


It is used to measure the humidity in any type of soil. It has applications in fields such as environmental control or agriculture.

The probe is constructed of stainless steel. This material provides good corrosion resistance and makes it accurate.

The probe is inserted into the soil from which the data is collected and automatically recorded.

Thanks to its full compatibility with the **Smartyplanet web platform**, the data measured by the soil moisture sensor can be analyzed in a simple way.

 Soil moisture sensor	
Range	0-100%
Accuracy	±2 %
Response time	<1s

 Mechanical construction	
Probe material	Stainless steel 316L
Probe size	Diameter: 3,4mm, Height: 60mm
Housing material	ABS
Housing size	Diameter: 40mm, Height: 152mm
Supply	12-24 VDC
Output	4-20 mA, 0-5 V, RS485

 Environmental protection	
Operating temperatura	-30°C to +70°C
IP Rating	IP68



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.