



**HSTI**  
France

Aix-en-Provence  
2025



**HydraSolo**<sup>®</sup>

# Product Data Sheet

## Description

**HydraSolo** probes use capacitance technology to measure data in the ground. Thanks to this technology we read temperature and moisture at each sensor, providing accurate monitoring of soil water content.

## Fully water-resistant

Our **HydraSolo** probes are designed to be watertight thanks to its resin filled body. All the electronics sensors are encapsulated and protected in the resin.

## Multi-purpose tool

The probe can be deployed in any soil type, any crops and can be installed on any irrigation system. Each sensor will give you temperature and moisture %VWC (Volumetric Water Content percentage).

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## Read a large volume of soil

Thanks to its 38mm diameter it offers a great sphere of influence: roughly of a volleyball size, depending on the soil type. It can be inserted into soil with minimal disruption to your plants' vital root systems.

## Telemetry

All information is read by a **datalogger** using the **SDI-12** or **RS485** communication protocols. The data logger powers the probe, sends measurement requests, and collects the data to transmit it to the server.

## Software

HSTI France offers its decision-making tool, **Odusol**, a digital business component dedicated to soil data analysis and enhancement. We can also provide specific APIs for integration with other platforms or software.

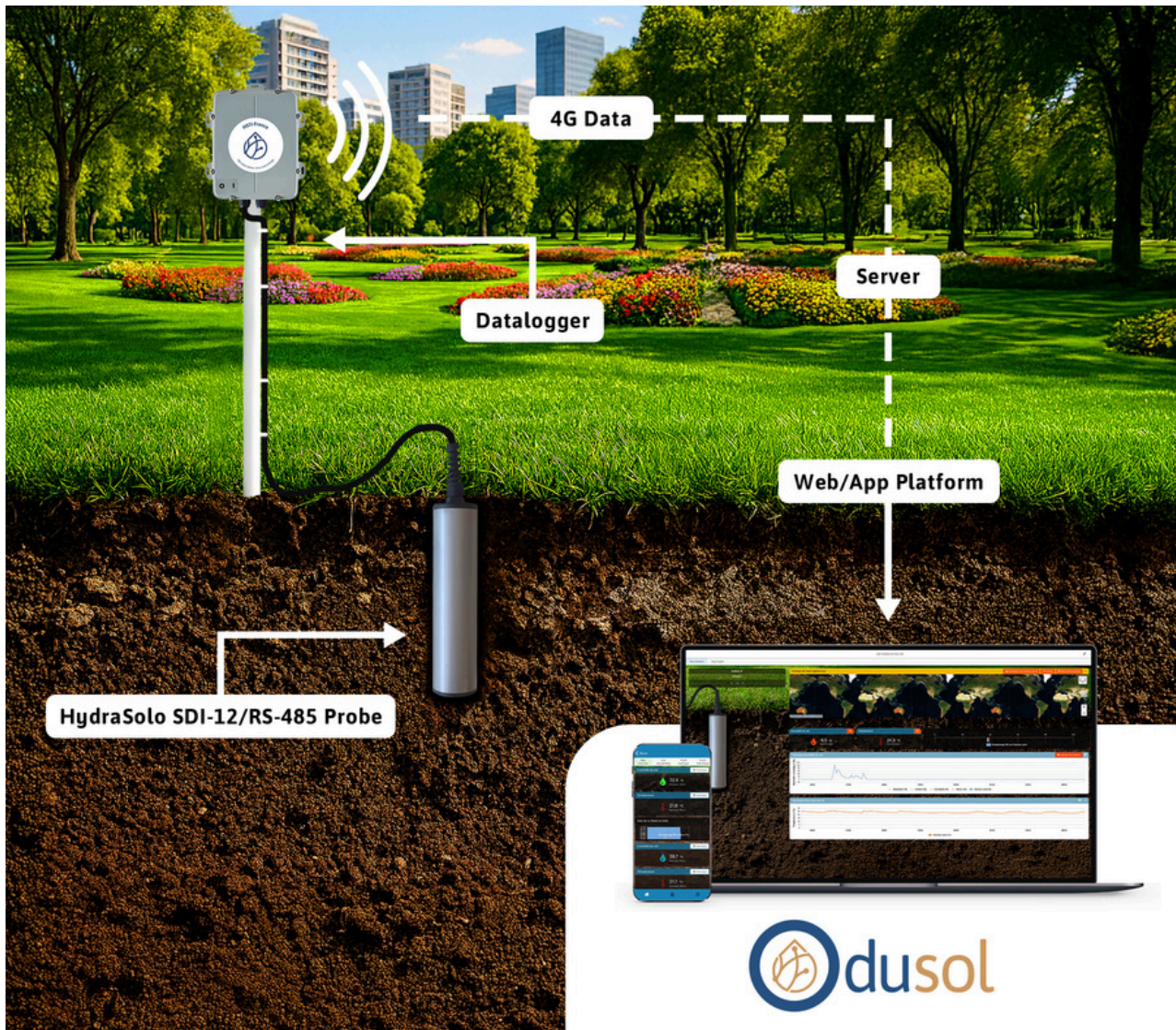
## Maintenance

No maintenance is required for our probes. It can be left in the ground for many seasons. **HydraSolo** probes are also easy to install. (See on : <https://www.hydrasolo.co/produits/> ).

## Warranty

You can be sure that you will enjoy a minimum of 5-year of usage with your **HydraSolo** probe. The first two years are fully covered at 100% under our legal warranty and the next 3 years are covered with an advantageous prorated of your purchase price, making sure that you will enjoy at least 5 years of complete usage under our HSTI warranty scheme.

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## Use Case

Installed in a green space, the **HydraSolo** probe continuously measures soil moisture and temperature.

The data is transmitted to the **data logger**, then automatically sent via the **4G** network to our secure servers hosted in France.

It is then accessible through Odusol, our decision-support tool, enabling **simple**, **reliable**, and **accurate** irrigation management.

# Technical data sheet **HydraSolo®**

<b>Diameter</b>	38mm	
<b>Data type per sensor</b>	Moisture Temperature	Volumetric Water Content Température en °C/°F
<b>Reading levels</b>	10cm (or multiple of 10cm) between each sensors	
<b>Moisture readings</b>	Method Technology Range Resolution Accuracy	Volumetric Water Content Capacitance From 0 à 100% 0,1°C +/-3.0% VWC (EC<2mS/cm)
<b>Temperature readings</b>	Technology Range Resolution Accuracy	Electronic Thermometer From -40°C à +70°C 0,1°C +/-0,5°C
<b>Output signal</b>	SDI-12	
<b>Power</b>	De 5V à 24 Volt DC	
<b>Cable lenght</b>	5 meters (standard) or customizable	
<b>Connexion wires</b>	3 wires (SDI-12)  5 ou 6 wires (RS485)	Red/Brown = power Green/Yellow = GND White/Blue = Data  Specific wiring
<b>Datalogger compatibility</b>	HydraSolo probe are compatible with any data loggers with SDI-12 & RS-485 interface (GSM, LoRa, SigFox, NB-IoT, LTE-M, Satellite, etc.).	