

Plant-e Soil Moisture SensorStick

**Smart monitoring of
soil moisture and
temperature**



Beukenlaan 52

6871 CL Renkum

+ 31 6 57346200

office@plant-e.com

www.plant-e.com

© 2026 Plant-e B.V. All Rights Reserved.

Insight without effort






The soil in orchards, vineyards, and horticulture deserves the best maintenance, especially water management, as it directly affects yield, quality, and costs. The Plant-e Soil Moisture SensorStick offers a revolutionary way to monitor soil moisture and temperature, without ever having to change batteries.

With a one-time installation in the topsoil, the SensorStick provides real-time data, powered by the soil itself. A powerful combination of technology and nature.

The Plant-e SensorStick provides information about soil moisture and temperature: two critical parameters to assess the root health. Maintaining stable moisture levels in the root zone supports deeper, stronger roots and reduces plant stress, leading to more resilient crops. Besides, excess soil moisture promotes root diseases and oxygen deficiency. The SensorStick helps detect prolonged wet conditions that encourage these problems.



Key features at a glance

Property	Advantages of The SensorStick
 Continuous measurement	Real-time insights into current soil conditions – no manual work required.
 Soil moisture & temperature	Provides key data for perfectly coordinated irrigation and fertilizer application.
 Wireless connection	Works anywhere – no local data network required.
 One-time installation	No recurring excavation or maintenance costs.
 Plant power as an energy source	Durable, maintenance-free and usable for decades.



Energy from nature – Plant-e's unique power source

The SensorStick is powered by Plant-e's groundbreaking and patented plant-power source. It works 24 hours a day and year-round. This powersource is always on and provides a long-lasting energy solution, delivering power for decades for low-power applications. This enables continuous data collection without the need to replace batteries. This is how it works:

1.

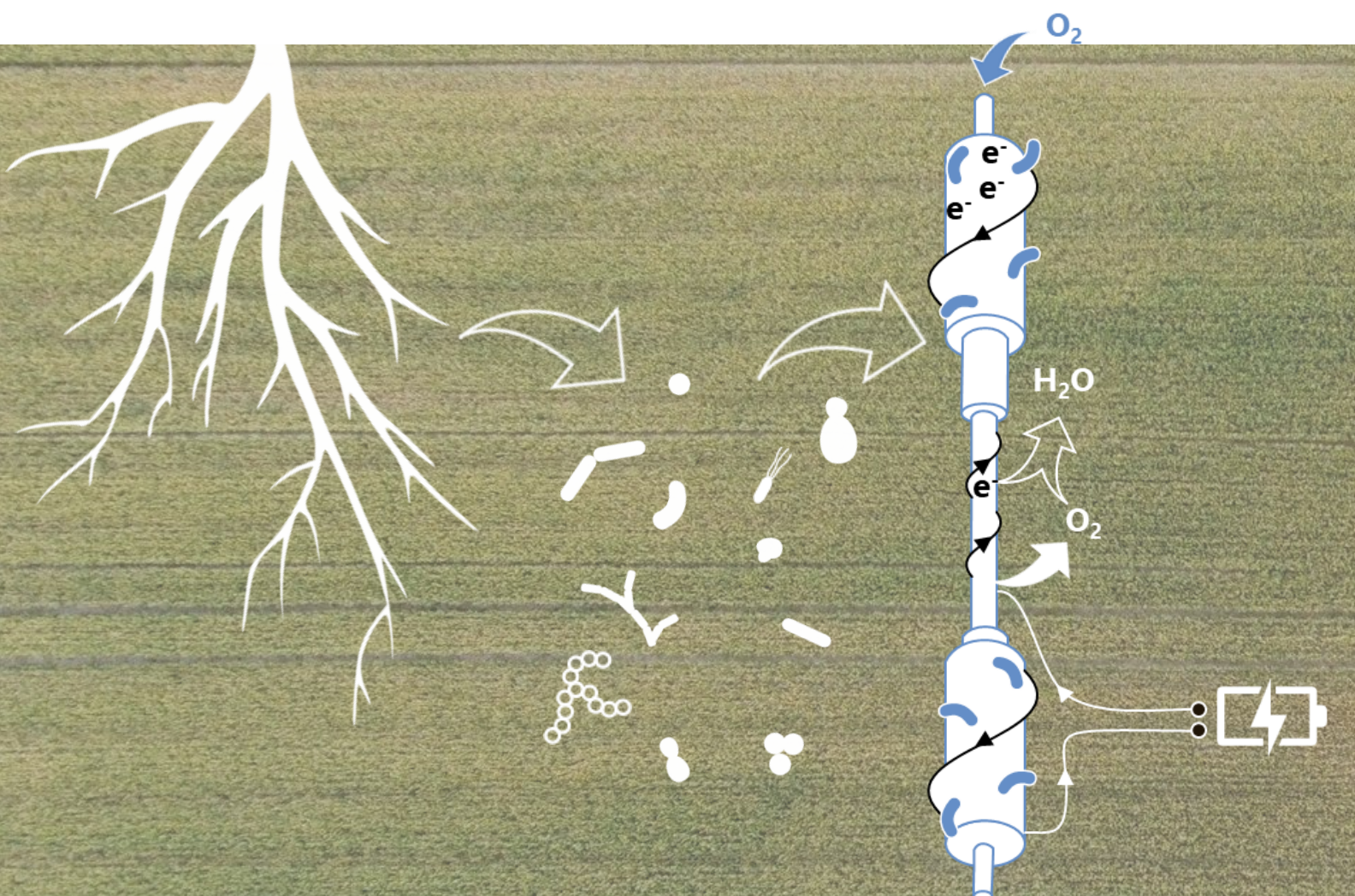
Plants release organic matter into the soil.

2.

Microorganisms break down this matter, releasing electrons.

3.

The SensorStick captures these electrons, generating electricity on the spot.



Worldwide connectivity via satellite

Our SensorStick ensures continuous, gap-free monitoring even in the most remote agricultural areas that are not covered by a local data-network. Regardless of local circumstances, the SensorStick always sends their data directly to the satellite, fully powered by its own power-sources.

1.

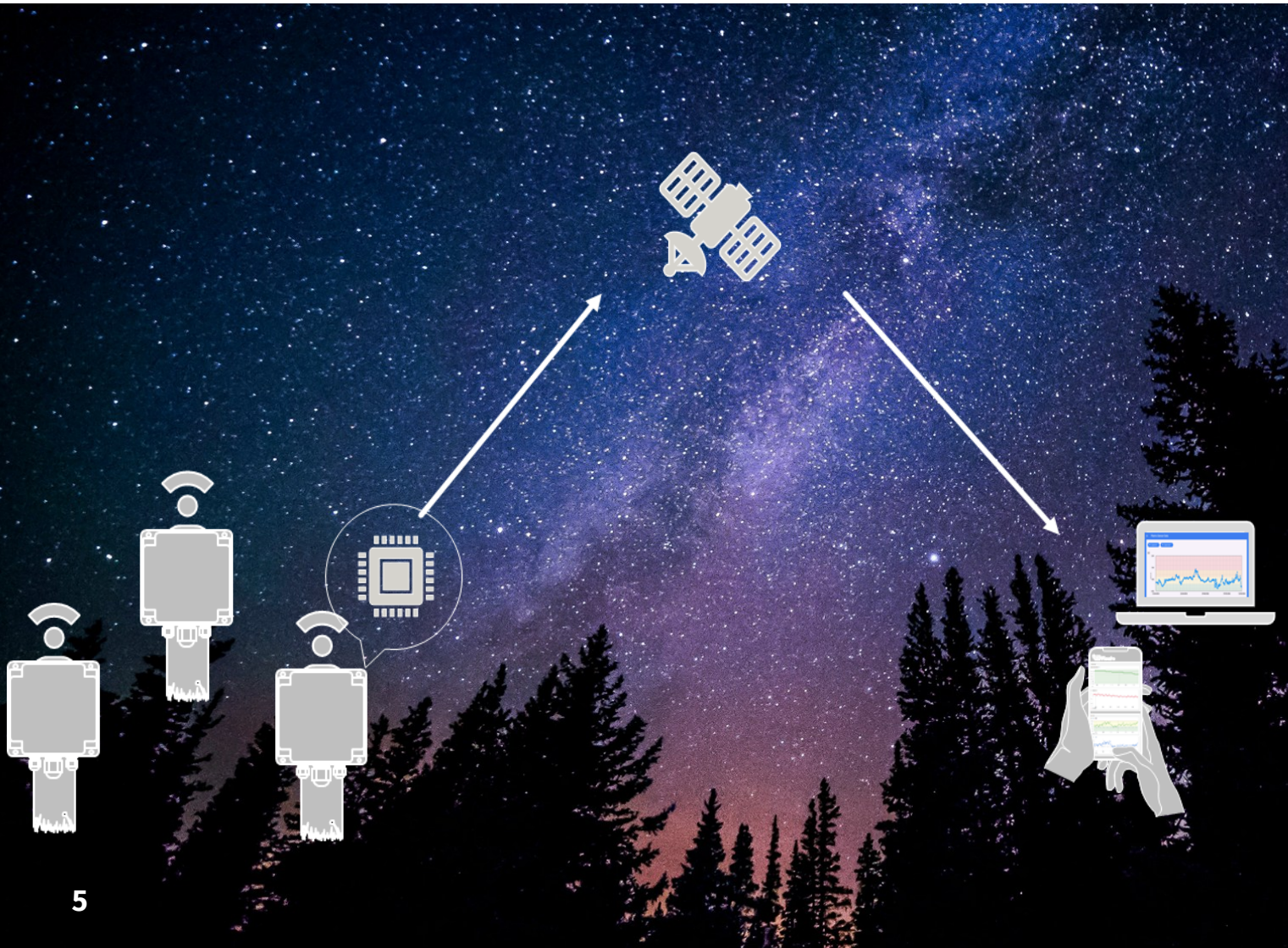
The SensorStick collects data from the soil.

2.

The built-in node in the SensorStick transmits the data directly to the satellite.

3.

Users receive the data, secured and encrypted.



Precise irrigation for healthier root

The Plant-e SensorStick helps growers irrigate at the right time and with the right amount of water. By measuring moisture directly in the root zone, it shows when plants actually need water, rather than relying on fixed schedules or visual judgement. This helps prevent both water stress and over-irrigation, leading to healthier roots, more uniform growth, and more efficient use of water and nutrients.

No time for manual measurements or data retrieval?

With the Plant-e sensor stick, you can transform your soil-water management into a data-driven, sustainable decision-making practice without extra workload. Growers can view soil moisture and temperature data on the app from anywhere, anytime.



Uniform growth



Reduced water cost



Minimize the risk of disease



Improved nutrient efficiency

Thanks to the temperature sensor in the soil, you can accurately determine when the soil reaches the right temperature and moisture for fertilizing. The data ensures that:



Automated alert for the efficient use of fertiliser



No root damage caused by premature fertilization & less nutrient leaching



Optimal fertilization ensures maximum quality



Temperature measurements provide insight into plant growth, stress, and fungal risks



Trend analysis is available via an online dashboard on smartphone, tablet, or PC



Critical alerts and insights are provided



Quick and easy Installation

One-time installation in the root zone.

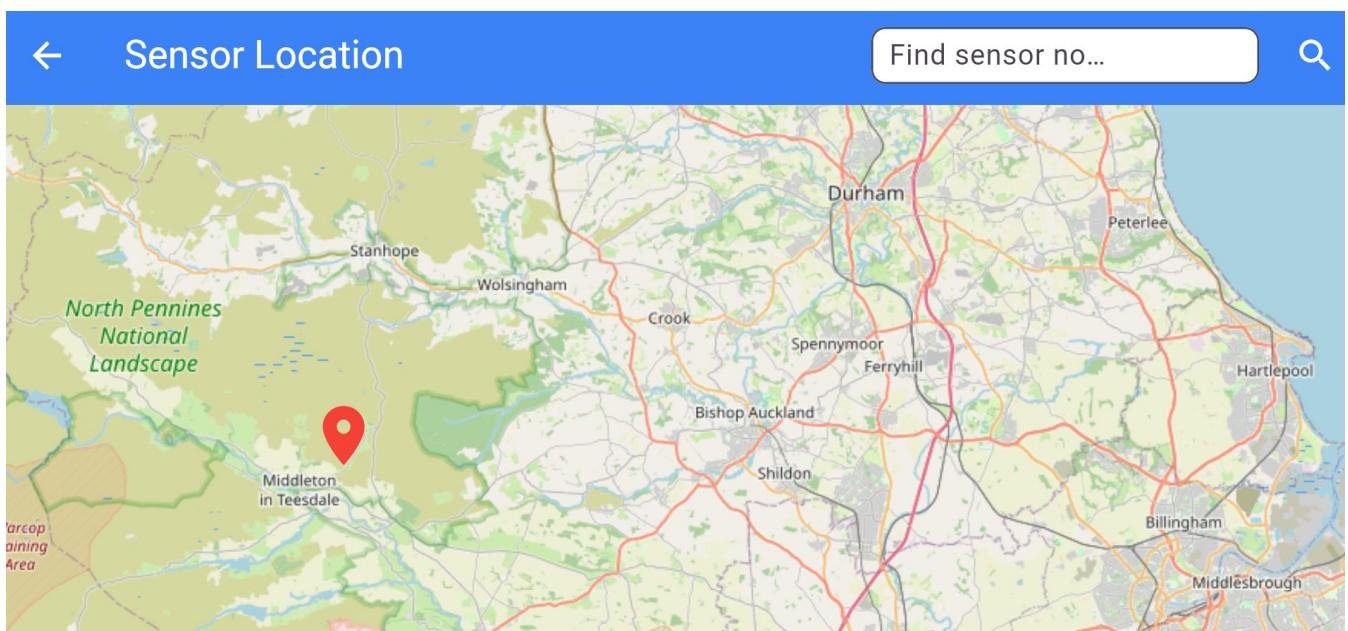
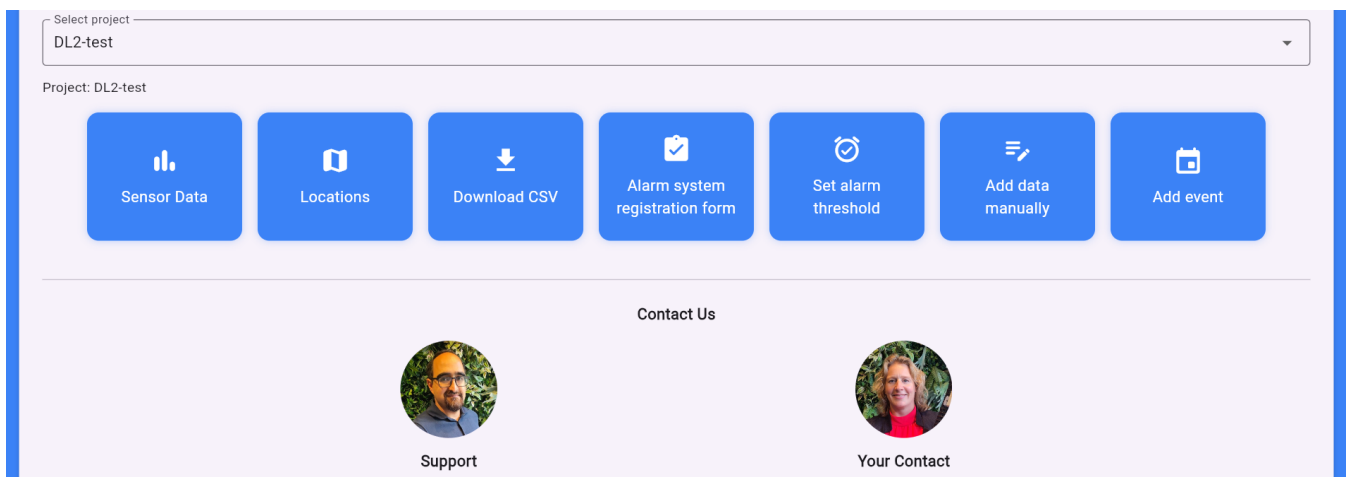
- Straightforward installation procedure.
- **Immediately operational** after installation.
- No need to go back to replace battery or to retrieve data. It is completely **autonomous and maintenance-free**.
- Connection via standard API possible (optional)
- Access all the data on the app 24/7.

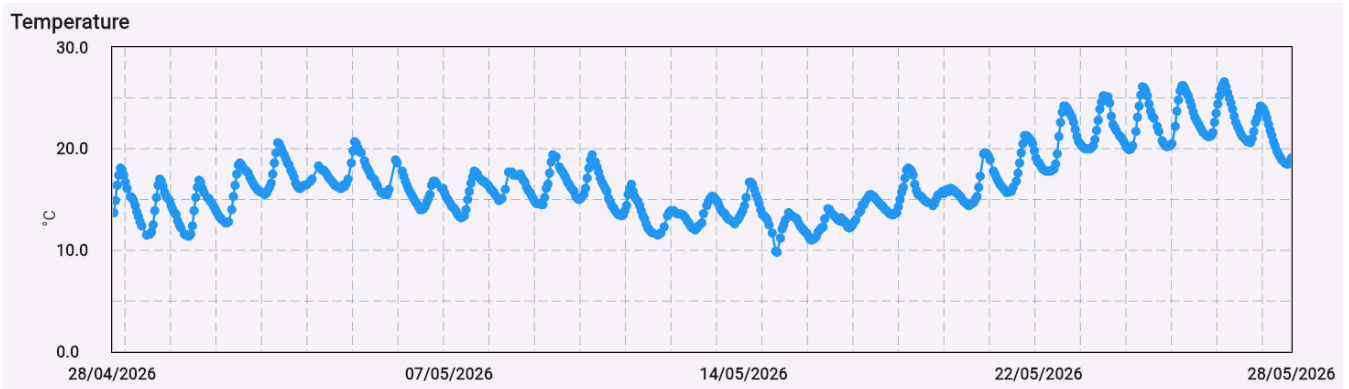


Dashboard integration

The SensorStick's dashboard is designed for simplicity, featuring the following intuitive panels:

- **Sensor data view** (electrical conductivity, temperature, and battery status)
- **Location view** of each SensorStick
- **Data downloads** where you will also find direct contact details for your dedicated account manager and technical support team.
- Setting for **threshold alarm**
- **Manual data measurement** & adding events





***Interested?
Request a demo or start a
pilot***

Contact Plant-e to explore how the SensorStick can
empower your emission reduction.

sales@plant-e.com

