

SMART SOIL SENSOR

9-in-1

**Your Data-Driven Partner
in Precision Farming**

Welcome to the future of smart farming. The Smart Soil Sensor 9-in-1 by Agronomics is an advanced, all-in-one device designed for farmers, agronomists, and researchers. Integrated seamlessly with the Agronomics mobile App, it delivers real-time soil analysis empowering smarter decisions, healthier crops, improved learning, and higher yields.

What It Measures:

Gain complete visibility into your soil health with 9 vital parameters:

- Soil Temperature
- Soil Moisture
- Soil Texture
- Electrical Conductivity (EC)
- Organic Matter(OM)
- Soil pH
- Nitrogen (N)
- Phosphorus (P)
- Potassium (K)

Use Data to Make Smarter Farm Decisions

With the Smart Soil Sensor & Agronomics you get:

- Precise **fertilizer & irrigation** schedules for healthier crops.
- **Crop suitability** guidance to plant what grows best in your land.
- Lower input costs by reducing **water and fertilizer waste**.
- Generates **geo-tagged soil health** reports tailored to specific locations.



How to Use the Smart Soil Sensor

While Testing:

- Dig 3 inches before inserting the sensor probe.
- Insert the probe at least 7 cm deep into the soil.
- Ensure a stable connection to your mobile device via OTG & Bluetooth.


Testing Modes:

- **Test My Field** – Use this mode to test the soil on your farm or field.
- **Test Another Field** – Use this mode when testing soil on someone else's field.
- **Spot Testing** – Quick testing for a specific point or area in the field.
- **Pot Testing** – Use this mode for soil in pots or controlled setups like greenhouses.

Post-Test Care:

- Remove the sensor carefully.
- Clean with tap water and dry before storing.
- Keep the USB connector dry and check cables regularly.

Parametric Specifications:

Parameter	Range	Accuracy / Precision
Temperature	-40 °C to 80 °C	± 0.5 °C
Moisture	0 % to 100 % RH	± 3 % RH
Electrical Conductivity	0 to 10 000 µS/cm	± 10 %
N / P / K (ions)	0 to 2 000 mg/kg	± 2 % CF
pH	0 to 10 pH	± 1 pH
Soil Texture	Sandy, Sandy Loam, Loam, Silt Loam, Silty Clay, Clay Loam, Clay  (Soil Texture is not included as part of Pot & Spot Testing Mode.)	

Smart Soil Report – Download & Share

After each test, generate a downloadable PDF titled “**Smart Soil Sensor Analysis Report**”, which includes:

- All 9 soil parameters.
- Interpretation & deficiency alerts.
- Exact GPS coordinates.
- Shareable with agronomists, advisors & partners.

Warranty & Support

- 6-month warranty on docking unit (manufacturing defects only).
- Electrodes not covered (consumables).
- No coverage for misuse, breakage, or chemical damage.

Maintenance & Safety Guidelines

- Clean probes with tap water after use.
- Avoid chemical cleaners.
- Do not twist/pull cables forcefully.
- Store in a dry, shaded place.
- Keep USB connector dry.

Smart Decisions Start with Smart Soil Data

Whether you're managing a large farm or a potted plant, the Smart Soil Sensor 9-in-1 is your companion in sustainable, intelligent farming.

Why Smart Soil Sensor?

Reliable & Accurate - Get precise, real-time soil insight.

Smart Integration - Mobile app enabled for easy tracking.

No more blind farming - make every drop and rupee count.



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