



The Smart Digital Moist Soil pH sensor is specifically designed for soil monitoring in large scale agricultural operations.

Smart Digital Moist Soil pH Sensor

The Smart Digital pH sensor for moist soil measurement is a game changer for soil monitoring in large agricultural operations. The integral smart sensor technology has changed the way we communicate with sensors and dramatically reduced the infrastructure costs associated with large scale mapping of soil pH.

Features

- Designed for soil monitoring in large agricultural operations
- Optimised for sensitivity and budget
- Non-porous, solid state reference system
- High durability Polypropylene body
- Extremely sensitive, fast response and stable glass bulb measuring element
- Tough Polypropylene body
- Sensor's specific tip designed for direct soil insertion and optimal measurement.
- Plug and Play connectivity
- Communication: MODBUS RTU (RS-485) output
- Ideal for inline moist soil measurement



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The sensor tip is designed for direct soil insertion and optimal measurement.

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The Smart Digital pH sensor for Moist Soil measurement has changed how we perform soil monitoring in large scale agricultural operations. Unlike a traditional sensor, the Smart Digital sensor provides a digital output signal that directly integrates with existing data acquisition systems without the need for intermediary devices that once made this an expensive exercise. Combined with our market-leading solid-state pH technology, it provides outstanding value for money, making it ideal for large scale agricultural applications.

The reference is a non-porous, solid-state reference system essential for soil measurement applications. It provides a long service life, unlike traditional liquid or gel reference systems which become easily blocked and poisoned by the media.

The Polypropylene sensor's body material has incredibly high mechanical strength and resilience. It is also resistant to various organic solvents, strong acids and alkalis. The sensor tip's design allows for direct soil insertion and optimal measurement.

The Smart Digital Sensor with direct MODBUS RTU output can directly interface with your industrial network or connect with our range of communication hardware.

SMART Sensor Technology

SMART Sensors have revolutionised the way our customers manage and maintain sensors. Unlike most other smart sensors, Turtle Tough provide you with the option of a propriety digital signal or an open-source Modbus RTU signal that is universally accepted. This allows the sensor to be directly connected to your industrial network without the need for proprietary hardware. Turtle Tough also provide state-of-the-art analysers and controllers should you require a sophisticated turnkey control solution. SMART sensors have the added benefit of storing a detailed performance history and diagnostics on-board enabling superior sensor management. Sensors can be cleaned and calibrated offline to facilitate a hot-swapping maintenance regime. Need to know more about [hot-swapping](#)? Ask our team



Product name	Smart Digital Moist Soil pH Sensor
Code	TT-SOIL-pH-DSS-1515D
Power/Outlet	9~36VDC/RS485 MODBUS RTU
Measurement mode	Glass/silver+ silver chloride; SNEX
Housing material	Polypropylene
Waterproof rating	IP68
Measurement range	0-14pH
Measurement accuracy	±0.05pH
Pressure resistance	≤0.6Mpa (87 psi)
Temperature compensation	Integral
Temperature range	0-80 °C
Connection	Quick Connect Plugs
Cable length	10 m cable (optional lengths available)
Thread	PG13,5
Application	Inline moist soil measurement

IMPORTANT: Please note this is a commercial grade industrial product and is not intended or designed to be used for domestic or hobby purposes. Automation and system integration skills are required to use this product.