# IOT-S300SMT

## RS485 Soil Moisture and Temperature Sensor

IOT-S300SMT soil temperature and humidity sensor is a combination of soil moisture and soil temperature sensors to facilitate the measurement and research of soil moisture and soil temperature. The product has high precision, fast response and stable output. It is less a ected by the salt content of the soil and is suitable for various soil qualities. Can be buried in the soil for a long time, resistant to long-term electrolysis, corrosion resistance, vacuum potting, waterproof and rust-proof.

## Features

Small size design, easy to carry, simple installation, operation and maintenance

Good airtightness, can be buried in di erent depths of soil for a long time

High measurement accuracy and reliable performance

Fast response speed and high data transmission efficiency

## Scope of application

Water-saving agricultural irrigation, weather monitoring
Greenhouses, flowers and vegetables, grass pastures, soil testing
Fields that need to measure soil moisture, such as plant cultivation and scientific experiments

**Linovision SolutionsLLC**
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## Technical Parameters

| Temperature measurement range | -30℃ ~+85℃ | |
|---|---|---|
| Probe working humidity | 0%RH~100%RH | |
| Signal output | 4~20mA | Rs485 output (Modbus protocol) |
| Operating Voltage | 12~24VDC | 12~24VDC |
| Maximum power consumption | 1.2W | 0.4W |
| Precision | Humidity：±3%(0%~50)　　±5%（51~100%）；Temperature：±0.5℃ | |
| Probe length | 55mm 70mm | |
| Probe diameter | 3mm | |
| Electrical connections | Direct lead | |

## Product size and wiring method

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