



Smart Soil Sensor

LoRaWAN soil moisture sensor with IP67 housing

The Smart Soil Sensor enables long-term measurements of soil data, in particular soil moisture (water tension) and soil temperature. It transfers live data to a LoRaWAN network or stores measured data until it is downloaded wirelessly.

Application

- Smart agriculture
- Research in ecology
- Hazard prevention / Landslide warning system
- Smart city / community management
- Large-scale gardening

Features

- Sensing soil moisture (water tension) and soil temperature
- Ambient temperature sensor
- LoRaWAN device with logging functionality
- GPS location tracking
- Various depths (15 cm, 25 cm, 55 cm, 85 cm)
- IP67 Housing
- Encrypted data transmission
- Optional: Predictive maintenance package

Technical Details

- Operating range -20 - +60°C
- Soil moisture measurement range 0–252 cBar (kPa)
- Battery life: 2 years at 1 measurement per hour
- Supports EU868, US915, AS923 and AU915 LoRaWAN bands

Accessories

- Optional: Sensor installation tool

Upon request we will provide support for your project, both remotely and on-site.

