

GAIA - SOIL SENSOR SYSTEM.

The GAIA IoT sensor system is a wireless high-performance soil sensor designed specifically for the smart agriculture market. GAIA is particularly characterized by the determination of the fertilizer content with an innovative measurement technology by utilizing the electrical conductivity. In addition GAIA has an accurate temperature-compensated measurement of the water content in the soil. This allows the management and cultivation of crops to be optimized. The data is collected at regular intervals and sent wirelessly to a cloud backend.



Features:

- Wireless data transmission via LoRaWAN®, MIOTY® or NB-IoT
- Accurate detection of electrical conductivity what allows the determination of the fertilizer content a trend composition of soil
- Precise temperature-compensated measurement of the water content in the soil and soil temperature
- Maintenance-free operation with PV module ensures long runtimes
- IP68, -25°C to 75°C, dimensions 122mmx94mmx54mm
- Accuracy: Temperature -20~60 ± 1,06°C, soil moisture 0~60 ± 3%
- Provisioning over NFC and Downlinks (data collection and transmission frequency)