

AgriStick

Agrometeorological smart device

Features

- Wireless communication via NB-IoT Cellular Network
- Real-time measurement in 3 different heights
- Reliable measurement in all weather conditions
- Painless deployment process
- Easy integration with existing infrastructure
- Optional, additional sensors: soil humidity, soil fertility, soil pH, soil electrical conductivity and salinity, leaf wetness, precipitation amount ...



Product description

AgriStick is a smart agrometeorological device that has integrated 3 temperature sensors for measuring air and soil temperature. In combination with a narrowband network, it transmits the results of all these measurements to a mobile application. Optional, additional sensors can be attached to device: soil humidity sensor, soil fertility, soil pH, electrical conductivity and salinity sensor, leaf wetness sensor, air temperature and humidity sensor, precipitation amount sensor.

Built-in battery, supported by an intelligent control system, guarantees a long service life with minimal maintenance and autonomous operation in rural areas.

Measurements

The AgriStick can measure temperature on 3 different heights which user can determine, for example **-20/-5/95**.

First number represents the distance of temperature sensor below ground level, second number represents distance of temperature sensor at ground level and third number represents the distance of temperature sensor above the ground level. Distance is presented in centimeters. Other examples can be **-15/0/100** and **-10/5/105**.

Deployment

AgriStick is delivered in an inactive state, which reduces battery consumption during transport and storage.

Activation of device is easily done using an Android or iOS mobile device via QR code. The configuration is set to send temperature information every full hour which means total of 24 temperature data per sensor in one day. Each device comes with a pre-installed SIM card from your local network operator.

Web application

Mobilisis provides web application which is mainly used for easy navigation to Spotium app.

Simply by scanning QR code on AgriStick label gives you a link where you see the name of the device, it's serial number and most importantly a link to Google Play and App Store through which you can download the Spotium application.

Application

- Temperature measurement on field
- Simultaneous measurement of soil and air
- Industrial temperature measurement
- Measurement of soil humidity, soil fertility, soil pH value, soil electrical conductivity and salinity value, leaf wetness, air humidity, precipitation amount (optional)

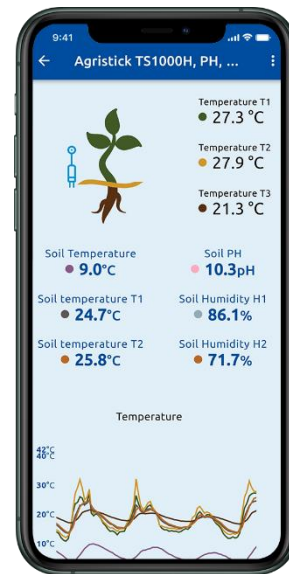
Mobile application - Spotium

After downloading app, the only thing that application requires for successful use is registration.

Spotium app in combination with AgriStick sensor and narrowband technology, gives complete solution to deliver the information at any time of day.

Through the application, you can monitor the parameters and locations of other devices (multiple AgriStick-s), receive notifications and access reports on measured parameters.

All important and desired data are graphically presented. while all sensors are visualized within the user interface using Here maps.



Technical specifications	AgriStick Mobilisis	
Detection method	Magnetometer, Temperature sensor, Humidity probes (optional)	
Bluetooth low energy capability	Supports data exchange with external device via BLE	
Power supply	Built in Hybrid Primary Li-SOCl ₂ battery	
Voltage [V]	3,6	
Capacity [Ah]	17	
Mounting	Into the ground	
Dimensions of stick (height x radius) [mm]	1435 x 15	
Dimensions of enclosure (WxLxH) [mm]	150 x 150 x 55	
Ingress protection	IP66	
Measuring temperature range [°C]	-50...+105	
Measuring temperature accuracy [°C]	±0,5 between -10 to +85	
SIM card	4FF Nano SIM	

Ordering information

Type	Product code	Product description
TS1000	31000133	AgriStick device which measures temperature on 3 different heights and consist of 1 or 2* batteries with no humidity sensor implemented
TS1000H	31000134	AgriStick device which measures temperature on 3 different heights and consist of 1 or 2* batteries with humidity sensor implemented and optional choice for one more additional agrometeorological sensor
LSP33600	11000428	Additional battery for TS1000 and TS1000H