



# SPOTIUM IoT

SMART AGRICULTURE  
IoT SOLUTIONS

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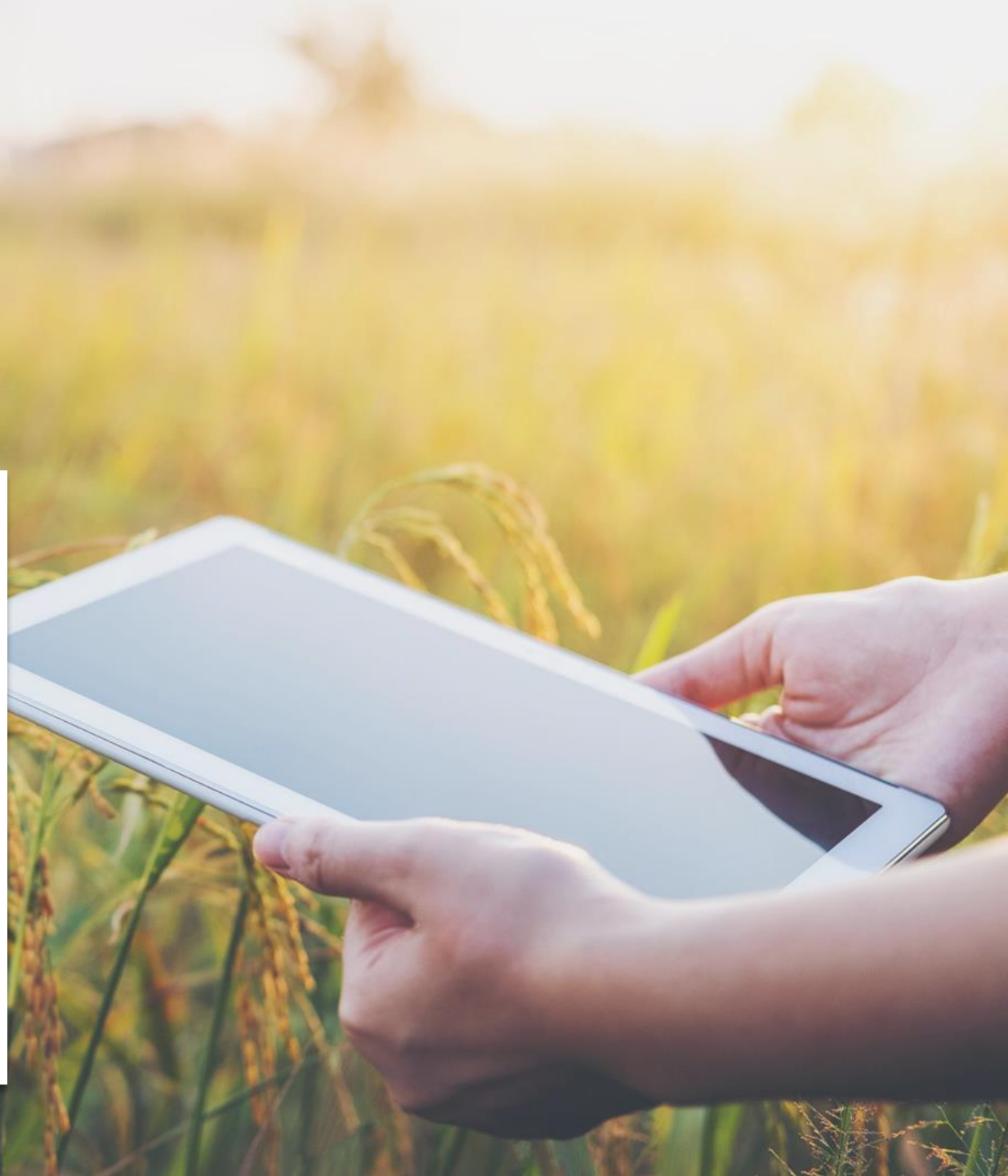
Agriculture Engineering  
Agronomy  
Horticulture  
Food Science and Technology  
Land and Water Management  
Plant Breeding and Genetics  
Soil Science

# Smart information

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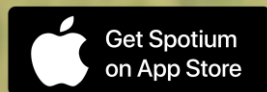
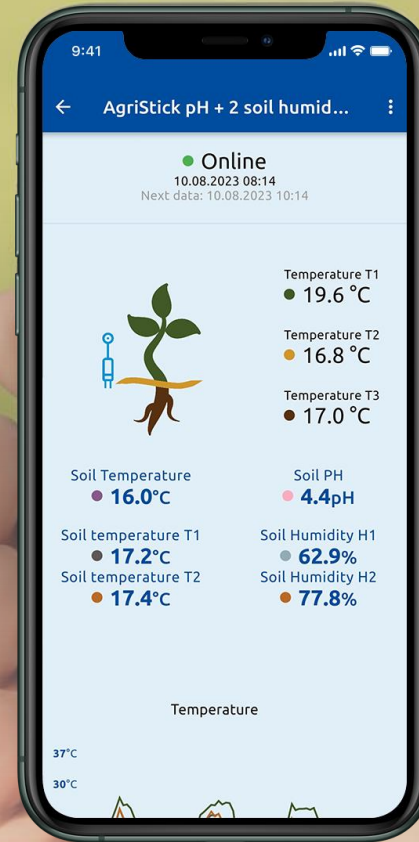
**The Spotium platform is an IoT that really makes a difference from the solutions on the market**

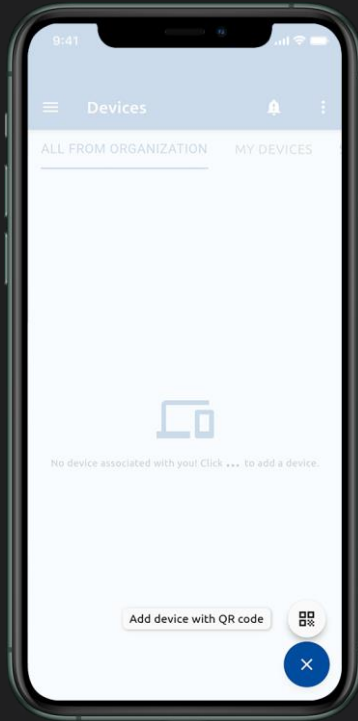
- Innovative technology
- Easy to use
- Wireless battery powered devices
- Combination of smart devices and cloud platform consisting of a user-friendly mobile & web application



# Mobile application

The Mobile application allows easy information sharing with other users, ensuring the flow and integrative use of data. It includes the connection of Agri sensors in different branches of agriculture.

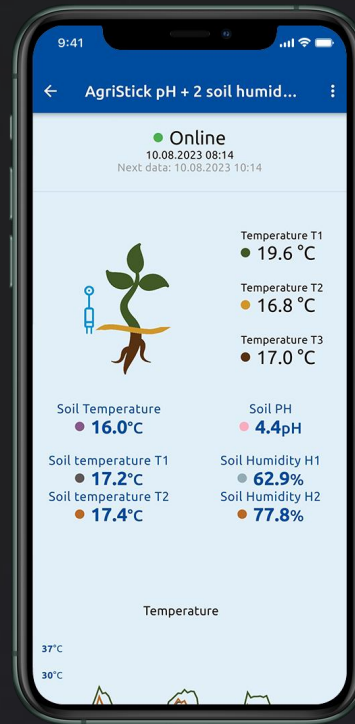




1



2



3

## 3 easy steps to get data

- Add new device
- Scan QR code
- Get measured data





## Measurement data

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- Soil & Air temperature
- Soil & Air humidity
- Leaf wetness
- Soil pH
- Soil EC & Salinity
- Precipitation (rain/snow)
- Solar radiation
- Illuminance
- Dust concentration
- Soil NPK value



## AgriStick

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AgriStick is a smart agrometeorological device that integrates 3 temperature sensors for measuring soil and air temperature.

In combination with the NBloT network, the results of all these measurements are transmitted to the Spotium platform.

In addition, different wired sensors can be combined with Agristick. The built-in battery, supported by an intelligent control system, guarantees a longer service life with minimal maintenance and autonomous operation in rural areas.



Product Name	AgriStick TS1000	AgriStick TS1000H	AgriStick TS1000C	AgriBox TS1
Order Code	31000133	31000134	31000160	31000161
Built-In Sensor	3 x Temperature	3 x Temperature + 1 x Soil humidity (optional up to 3)	3 x Temperature + Custom developed sensors	Air Temperature&Humidity + accessory sensors
Technology	NBiOT	NBiOT	NBiOT	NBiOT
Communication	LTE Cat NB	LTE Cat NB	LTE Cat NB	LTE Cat NB
Power Supply	Internal battery	Internal battery	Internal battery	Internal battery
Battery	Li-SOCI2 17Ah 3,6V	Li-SOCI2 17Ah 3,6V	Li-SOCI2 17Ah 3,6V	Li-SOCI2 17Ah 3,6V
Battery Life	6 years	5 years*	5 years*	5 years*
Installation	P'n'P	P'n'P	P'n'P	P'n'P
Dimension	1450x130x130 mm	1450x130x130 mm	1450x130x130 mm	150x150x50 mm
IP Protection	IP65	IP65	IP65	IP65
Usage Area	outdoor	outdoor	outdoor	outdoor
Env. Temperature	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C

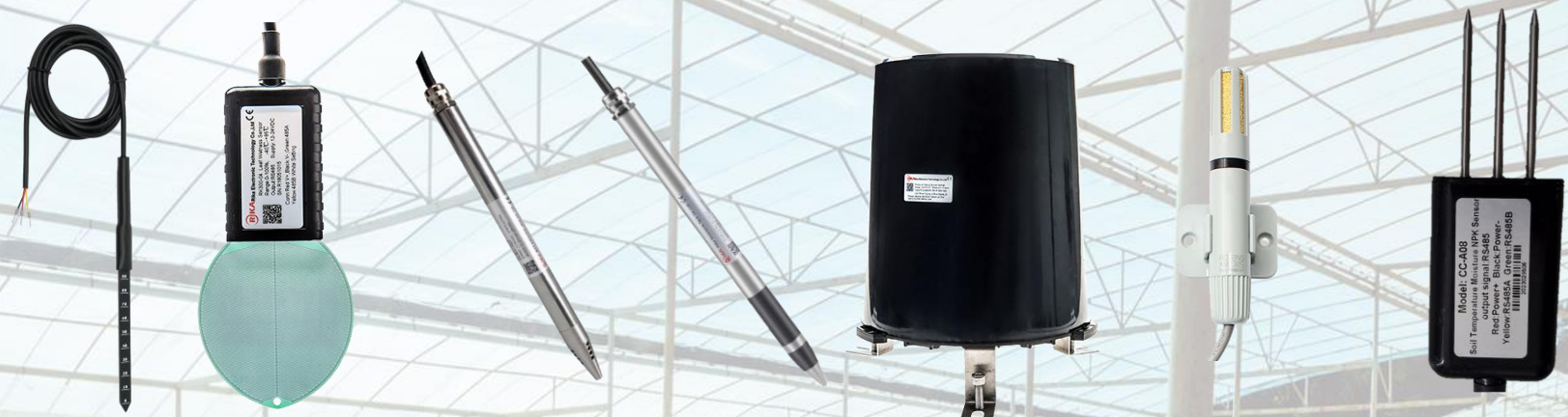
\* Depending on accessory sensors connected

# Accessories

- Add-on sensors for upgrading AgriStick, AgriBox and AgriSensor products
- Provide additional capabilities for measuring, collecting data, extending autonomy and increasing information management efficiency







Product Name	Hum Soil sensor	LeafWet sensor	Soil PH sensor	Soil EC/SAL sensor	Rain sensor	Temp&Hum sensor	Soil NPK sensor
Order Code	31000149	31000150	31000151	31000152	31000166	31000165	31000216
Built-In Sensor	Soil Humidity 0-100%	Leaf wetness 0-100%	Soil pH (0-14 pH)	EC 0-5000 us/cm SAL 0-10000 ppm(mg/L)	Precipitation mm	Air Humidity 0-100%RH Air Temp -40°C~+80°C	N/P/K range: 0 – 1999 mg/kg Soil Humidity 0-100%RH Soil Temp -30°C - + 70°C
Technology	Digital wire sensor	Digital wire sensor	Digital wire sensor	Digital wire sensor	Puls wire sensor	Digital wire sensor	Digital wire sensor
Accuracy	(0-50%) +/- 3%, +/- 5% (>50%)	(0-50%) +/- 3%, +/- 5% (>50%)	0,05 PH (resolution 0,01 PH)	1%	0,2 mm	±2 % RH ±0.3 °C	±0.2 °C ±2 % RH ±3 % (mg/kg)
Power Supply	3,3 VDC	12 VDC	12 VDC	12 VDC	-	3,3 VDC	12 VDC
Calibration	Yes	No	Yes	Yes	No	-	Yes
Calibration Cycle	1 year	-	6 months	6 months	-	-	-
Installation	Under the ground	Tree branch	Under the ground	Under the ground	On the ground	wall/pole	Under the ground
Dimension	250 x 20 x 5 (mm), cable 3 m	250 x 20 x 5 (mm), cable 5 m	220 mm x Ø15 mm cable 3 m	215 mm x Ø14 mm cable 3 m	V 270, Ø200 mm cable 3 m	97.4 mm x 16 x 16, cable 0.8 m	55 mm x Ø3 mm cable 2 m
IP Protection	IP68	IP65	IP68	IP68	IP68	IP68	IP68
Usage Area	outdoor	outdoor	outdoor	outdoor	outdoor	outdoor	outdoor
Env. Temperature	-10 °C to +55 °C	-10 °C to +55 °C	0 °C to +80 °C	-20 °C to +80 °C	0 °C to +60 °C	-40 °C to +80 °C	-30 °C to +70 °C

# AgriSensor

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AgriSensor is a smart agrometeorological device that has integrated several different sensors for measuring meteorological values.

AgriSensor differs from the AgriStick device in terms of powering the device. While AgriStick uses lithium non-rechargeable 3.6V batteries, AgriSensor uses a 12V rechargeable battery and a solar panel.

AgriSensor has a larger IP65 enclosure but retains the functionality of additional AgriStick sensors such as leaf or soil moisture, PH or soil salinity that can be used additionally to standard parameters.



Product Name	AgriSensor MX5	AgriSensor MX6	AgriSensor MX9
Order Code	31000145	31000146	31000147
Built-In Sensor	Wind speed & direction, Air temperature/humidity/pressure	Wind speed & direction, Air temperature/humidity/pressure, Precipitation (rain, snow, hail)	Wind speed & direction, Air temperature/humidity/pressure, Precipitation (rain, snow, hail), Solar radiation, illuminance, UV, dust concentration
Technology	NBiOT	NBiOT	NBiOT
Communication	LTE Cat NB	LTE Cat NB	LTE Cat NB
Power Supply	Internal battery + 20W solar panel	Internal battery + 20W solar panel	Internal battery + 20W solar panel
Battery	LeadAcid 12V 9Ah	LeadAcid 12V 9Ah	LeadAcid 12V 9Ah
Battery Life	rechargeable battery	rechargeable battery	rechargeable battery
Installation	Aprox. 60 min / P'n'P	Aprox. 60 min / P'n'P	Aprox. 60 min / P'n'P
Dimension	N/A (compact pole design)	N/A (compact pole design)	N/A (compact pole design)
IP Protection	IP65	IP65	IP65
Usage Area	outdoor	outdoor	outdoor
Env. Temperature	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C

# Examples

AgriBox TS1 with LeafWet sensor



AgriSensor MX9 weather station



AgriStick TS1000H with Soil humidity sensor & Air temp & humidity sensor



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