

Leaf sensor



Datasheet

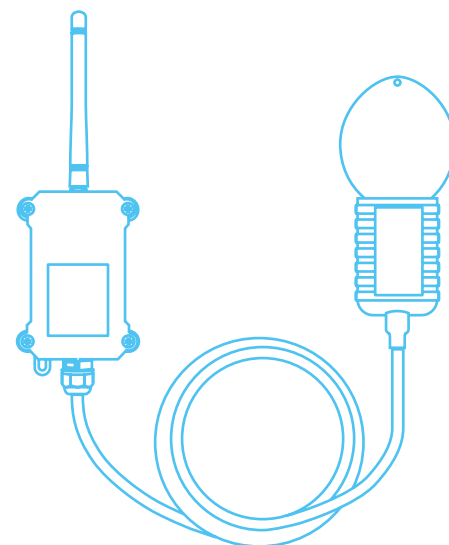
Anticipate the risks of crop disease and optimise phytosanitary treatments by monitoring leaf wetness.

LEAF SIMULATION

The sensor simulates the leaf's natural characteristics and imitates its thermodynamic behaviour to measure wetness which is as similar as possible to the leaf.

FLEXIBLE MEASURES

Choose the uplink interval that suits your needs.



Leaf sensor

Measure : leaf temperature

Unit	°C	Resolution	0.1°C
Range	-50 à 70°C	Accuracy	< 0.5°C (-10°C to 70°C) < 1.0°C

Mesure : leaf humidity

Unit	%	Resolution	1%
Range	0 to 100 %	Accuracy	± 3 % from 0 to 50 % and ± 6 % if > 50 %

Wireless transmission

Technology	LoRaWAN v1.0.3 Class A	Radio frequency	EU868 MHZ
Transmission power	25 mW (14 dBm)	Sensitivity	Up to -148 dBm
Uplink frequency	Configurable from 1 minute		

Power supply

Voltage	2.1V ~ 3.6V	Battery technology	Li / SOCl2
Capacity	8500 mAh	Power consumption	12 µA with an uplink interval of 10 minutes
Battery lifetime	Up to 10 years with an uplink interval of 10 minutes		