

DATA SHEET

Leaf wetness and leaf temperature sensor

Feldfühler Nessi



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Professional sensors for agriculture!

Overview:

Nessi is a LoRaWAN leaf wetness and leaf temperature sensor for professional agriculture. You can use it to accurately measure leaf wetness and leaf temperature and send the information via the wireless LoRaWAN protocol to the Feldfühler app.

Using the FDR method, Nessi detects the dielectric constant caused by liquid on the leaf surface and thus derives the value for the leaf wetness. The sensor is shaped like a leaf to best simulate the characteristics of a real leaf. This allows the leaf status to be analyzed and dew moisture to be distinguished from rain.

Nessi is powered by an 8500-mAh Li-SOCI2 battery, which is optimally suited for the harsh conditions in agriculture and is designed for long-term use of up to 7 years. (Battery life depends on the usage environment and the update interval).

Features:

- Extremely low power consumption
- Replaceable battery
- 3 meter cable
- Temperature & humidity alarm
- 20 minute interval
- Waterproof housing to IP66
- Sensor protection class to IP67

Sensor specification:

Leaf temperature:

- Range: -50°C - 80°C
- Accuracy: 0,5°C @ -10 °C -70 °C±
- Resolution: 0,1°C

Leaf wetness:

- Range: 0 – 100%
- Accuracy:
 - ± 3% (0 – 50%),
 - ± 6% (50% – 100%)
- Resolution: 5 %



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Netscrapers UG & Co. KG
Kortscher Str. 97,
39028 Schlanders
Italy

+39 0473 711108
support@feldfühler.app
<https://feldfühler.app>