



DATASHEET

Dual temperature sensor

Feldfühler Freddi



feldfühler

Professional sensors for agriculture!

Overview:

Freddi is a LoRaWAN frost station for professional agriculture. You can use it to measure the dry and wet temperature precisely and send the information to the Feldfühler app via the wireless LoRaWAN protocol.

Freddi uses 2 sensors of the type PT1000 PRT (Platinum Resistance Thermometer) of class AA. The PT1000 is a resistance-based sensor from the company RS PRO that offers high reliability and long-term stability. It measures the surface temperature, capturing the temperature felt at the bud (taking radiation and wind into account). Thanks to its fast response to temperature changes and a very high accuracy of 0.1°C, Freddi is ideally suited for temperature monitoring during frost. ±

Freddi is powered by a 0.9W solar panel and a 3000-mAh Li-ion battery, which is ideally suited for the harsh conditions in agriculture and for long-term use (the battery life depends on the usage environment and the update interval).

Features:

- Extremely low power consumption
- Solar panel & battery
- Incl. mount, bottle and sock
- Temperature alarm
- 10 minute interval
- Waterproof housing to IP66

Sensor specification:

- Type: PT1000 IEC 60751 Class AA
- Material: Stainless steel
- Measuring range: -20°C - 100°C
- Accuracy: 0.1°C @ -20 - +20°C ±
- Resolution: 0.1°C
- Drift: 0.03 °C /year<
- Measuring principle: RTD (Resistance Temperature Detector)

Use case:

- Monitoring of wet and dry temperature during frost
- Precision thinning



feldfühler

Professional sensors for agriculture!

Feldfühler GmbH
Kortscher Str. 97,
39028 Schlanders
Italy

+39 0473 505133
info@feldfühler.app
<https://feldfühler.app>