

LPWAN miniUNI Agro Thermometer

PRODUCT DESCRIPTION

LPWAN Agro Thermometer device is dedicated for monitoring of multiple temperatures in agricultural materials or generally other solid or liquid materials. The probe made of high quality carbon fiber components and measurement segments are made of aluminum. Number of thermometers can be extended up to 5 and total length of thermometer probe vary from 0.5 to 3m. Radio unit miniUNI is housed to standard Solidus Tech IP65 box. The miniUNI Agro Thermometer is available for different LPWAN networks, today we support Sigfox (all bands), LoRaWAN and NBIoT.

USAGE

- Corn stack thermal profile monitoring
- Soil temperature monitoring
- Liquid temperature monitoring
- Supporting sensor for irrigation systems



FEATURES	PARAMETER
Protection	IP65
Power supply	3.6V lithium battery 14505(M)/2600mAh, 2 batteries possible
Power consumption	<3,5uA in deep sleep/80mA transmission (Sigfox, LoRa) / 500mA (NBIoT)
Battery lifetime	Aprox. 20 000 transmissions
Supported LPWAN standards	Sigfox, LoRaWAN, NBIoT (one of selected upon order)
Dimensions radio unit RU	107 x 65 x 33
Cable between RU and Thermometer	0.3 to 2m fixed or with connector
Thermometer length	0.5 to 3m
Weight standard/radiation	130g RU + thermomete
Thermometer	From 3 to 5 segments, each segment is equipped with DS18B20 digital thermometer – accuracy +/- 0.5°C, temperature range -50 to +125°C
Antenna/typical range	Helical, gain 2.5dBi/45 to 110km depends on LPWAN technology