



LPWAN miniUNI Agro Thermometer

- 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 NBloT.

Usage

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



| LPWAN Counter IP65 device | 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 (NBloT) |
| Battery lifetime | Aprox. 20 000 transmissions |
| Supported LPWAN standards | Sigfox, LoRaWAN, NBloT (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 + thermometer |
| 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 |

