

# LPWAN miniUNI DS18B20

## PRODUCT DESCRIPTION

LPWAN miniUNI DS18B20 device has been designed for industrial range temperature measurement in different industry areas. The device was optimized to achieve best precision for temperatures -50 to +125°C and can be easily used for checking storage and transportation temperature.

MiniUNI DS18B20 is designed for digital 1WIRE DS18B20 kind of probe, however can be extended up to 7 probes. The device is battery operated and battery lifetime has been optimized by selection of high quality and ultra-low power components. 5+ year between battery replacement can be expected with 6 messages per day. Enclosure is made of high quality ABS plastic and has been designed to meet IP65. The device can be delivered in IP68 protection on demand, ask for details before order. DS18B20 kind of probe eliminates process of calibration, because manufacturer of DS18B20 guarantee constant temperature response during the probe lifetime.

### USAGE

- Food industry storage monitoring
- Pharmaceutical industry cure/vaccinas storage
- Industry temperature monitoring
- Smart agricultural soil/air temperature monitoring



| FEATURES                  | PARAMETERS                                                            |
|---------------------------|-----------------------------------------------------------------------|
| Protection                | IP65, IP68 on demand                                                  |
| Operating temperature     | -40 to +80°C                                                          |
| 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 in mm          | 107 x 65 x 33 + probe 182 x 30 x 12                                   |
| Weight                    | 145g                                                                  |
| Temperature probe         | DS18B20, range -50 to +125°C                                          |
| Accuracy                  | +/-0.5°C                                                              |
| Cable length              | Upon request, standard. 1m                                            |
| Antenna/typical range     | Helical, gain 2.5dBi/45 to 110km depends on LPWAN technology          |