



LPWAN Indoor thermometer device

LPWAN thermometer device has been designed for indoor temperature monitoring and can be delivered in various accuracy specifications based on intended purpose:

- ✓ Internal thermometer +/- 0.1°C
- ✓ Internal thermometer +/-0.5°C
- ✓ External thermometer +/-0.5°C

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. Enclosure is made of high-quality ABS plastic and has been designed to meet high demanding interior requirements while IP65 protection has been reached.



Usage

- Indoor air temperature monitoring
- Freezer performance monitoring
- Air condition performance monitoring
- Legionella prevention system – temperature monitoring on water pipes

LPWAN Environmental device	Parameter
Protection	IP20
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	107 x 65 x 33
Weight standard/radiation	120g
Temperature sensors available	DS18B20, accuracy 0.5°C, range -50 to +125°C (internal ox external probe) Si7051, accuracy 0.1°C, range -40 to +85°C
Accelerometer, tamper contact	Optional, antitheft protection
Antenna/typical range	PCB, gain 2.5dBi/45 to 110km depends on LPWAN technology

