

LPWAN Indoor thermometer device

PRODUCT DESCRIPTION

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.

MAIN FEATURES

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

- Internal thermometer $\pm 0.1^{\circ}\text{C}$
- Internal thermometer $\pm 0.5^{\circ}\text{C}$
- External thermometer $\pm 0.5^{\circ}\text{C}$

USAGE

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



FEATURES	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. 30 000 transmissions
Supported LPWAN standards	Sigfox, LoRaWAN, NBLoT (one of selected upon order)
Dimensions	107 x 65 x 33
Weight	120g
Temperature sensors available	DS18B20, accuracy 0.5°C , range -50 to $+125^{\circ}\text{C}$ (internal or external probe)
Accelerometer, tamper contact	Optional, antitheft protection
Antenna/typical range	PCB, gain 2.5dBi/45 to 110km depends on LPWAN technology