LPWAN picoUNI indoor T / T-RH device

PRODUCT DESCRIPTION

The device is battery operated and battery lifetime has been optimized by selection of high quality and ultra low power components. 1+ year between battery replacement can be expected. Enclosure is made of high-qualityABSplastic and has been designed to meet high demanding interiorrequirements, all components are protected to survive condensing environment.

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
- Internal thermometer +/-1°C

T/RH sensor can be equipped upon request, see specification below.

USAGE

- Indoor air temperature monitoring
- Freezer/refrigerator performance monitoring
- Air condition performance monitoring

VLASTNOSTI	PARAMETRY
Protection	IP20, condensing environment possible
Power supply	3V lithium battery CR2/800mAh
Power consumption	<3,5uA in deep sleep/500mA (NBIoT)
Battery lifetime	Aprox. 4000 messages
Supported LPWAN standards	NBIoT, LoRaWAN
Dimensions	80 x 40 x 20mm, available in black, gray and white, custom front panel
Weight standard/radiation	80g
Temperature sensor	Si7051, accuracy from 0.1°C to 1°C, range -40 to +85°C
Temperature/air rel. humidity sensor	Si7021, Precision Relative Humidity Sensor • ± 3% RH (max), 0–80% RH • High Accuracy Temperature Sensor • ±0.4 °C (max), –10 to 85 °C
Accelerometer, tamper contac	Optional, antitheft protection, magnetic contact for configuration downlink invoke
Antenna/typical range	helical, gain 2dBi/45 to 110km depends on LPWAN technology

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