Blue PUCK T EN 12830

BLUETOOTH 4.0 LE TEMPERATURE SENSOR

Perfect monitoring solution for a wide use in the cold chain logistics, freezers, refrigerators and other temperature sensitive cases. Sensor is EN12830-2018 certified, one on the first in the market. Sensor uses advanced Bluetooth 4.0 BLE technology to get data from long distance, it can work from internal battery up to 7.5 years! Collected temperature information of the surrounding environment is transferred to RUTX series router which has possibility to support up to 200 temperature sensors at the same time!

EN 12830 standard is required for monitoring of temperatures in the means of transport, warehousing and storage of quick-frozen foodstuffs intended for human consumption, to ensure that temperature are recorded correctly. According to the EU regulation from 1 January 2006, all measuring instruments used for the purpose of monitoring the temperature, shall comply with EN 12830. Food operators shall keep all relevant documents permitting verification that the instruments referred to above conform to the relevant EN standard.

Legal Regulation: COMMISSION REGULATION (EC) No 37/2005

VERY LONG RANGE
Up to 500 meters (open field)

HIGH LIFECYCLE
Up to 7.5 years

INDUSTRIAL CASING
IP65 waterproof

Technical data	
Battery	Lifecycle up to 7,5 years (Beacon rate: 3 s / Power: +4 dBm / Download: 4000 values per day / Temperature: one measurement every 10 seconds)
Operating mode	"Advertising" beacon mode: periodic data transmission (id + sensor data)Online mode: download up to 4,000 stored values
Bluetooth	2,4 GHz - Bluetooth Low Energy 4.0/4.2
NFC	Secured NFC programming
Dimensions	ø 57 mm base - Thickness 20 mm - 2 mounting ø 4 mm holes, spaced of 49 mm
Weight	36 g
Operating temperature	-30°C to +85°C
Ingress Protection Rating	IP65 (Waterproof)
Measuring range	-30°C to +85°C
Accuracy	± 0,5 °C from -25 °C to 85 °C / ± 1 °C from -40 °C to -25 °C
Calibration	Parametric calibration coefficients (Polynomial 2 °)
Resolution	0,0625°C
Transmission range	Up to 500 meters (open field)
Transmission period	0,1 to 10 second (programmable)