



EYE SENSOR EN12830

Bluetooth® temperature sensor with EN12830 certificate for cold-chain solutions



CERTIFIED TEMPERATURE MONITORING

Ensuring proper storage and delivery of temperature-sensitive goods in compliance with health and safety regulations

INTERNAL MEMORY

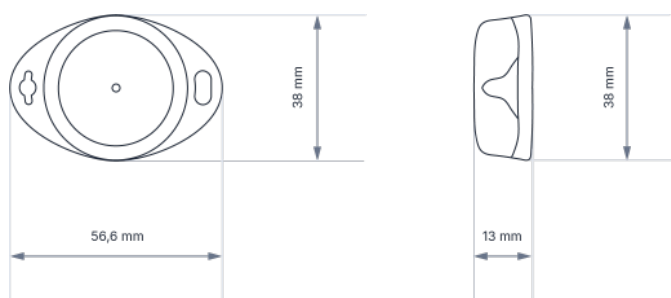
Keeping the history of temperature data as documented evidence in case of audits, inspections, and other occasions

FOOD-GRADE CASING

Compliant with EU and FDA regulations, our device is ideal for food-contact applications

EYE APP EN12830

Intuitive and easy-to-use Teltonika mobile app for temperature record download, prompt configuration, and live data scanning



Features

Beacon ID	Yes
Sensors	Temperature Humidity Movement Magnet detection
Scenarios	Temperature tracking in refrigerated trailers, Temperature monitoring in warehouse, Cold chain logistics for pharmaceuticals, Agricultural product storage, Hospital and laboratory sample storage, RSSI Indoor tracking
Internal Memory Temperature Records	33,000
Internal Memory Records Download	EYE APP EN12830
Sleep mode	Hibernate
Configuration and firmware update	EYE APP

Electronics

Microcontroller	ST Microelectronics BlueNRG-2
Bluetooth operating frequency	2.402 - 2.480 GHz
Bluetooth antenna gain (peak)	1.2dBi
Accuracy class	0.5°C
Laboratory Calibrated Temperature Sensor	Yes

Connectivity

Bluetooth®	Bluetooth® 4.2
Range	80 m
Transmission power level	Up to 8 dBm
Sensitivity	-88 dBm

Power

Model	CR2450
Type	Lithium, Manganese Dioxide (Li/MnO2)
Capacity	600 mAh
Replaceable	No
Battery life	Constant temperature of 20°C, transmit power 2dBm Up to 2.5 years (advertising interval 3s) Up to 4 years (advertising interval: 5s), DEFAULT Up to 5 years (advertising interval 10s)
	Constant temperature of 0°C, transmit power 2dBm Up to 2 years (advertising interval 3s) Up to 3 years (advertising interval: 5s), DEFAULT Up to 4 years (advertising interval 10s) Contact us for battery life info in colder environments.

Physical specification

Dimensions	56.6 x 38 x 13 mm (L x W x H)
Weight	18 g

Casing

Ingress protection	IP67
Mounting	Two mounting points on each side
Marking	Available branding customisation upon request

Environmental requirements

Humidity (non-condensing)	From 0% to 100%
Operational temperature	-20°C / +60°C (-4 °F / +140 °F)

Protocol compatibility

iBeacon	Yes* <i>*EYE APP on iOS doesn't show devices with iBeacon protocol</i>
Eddystone	Yes
Sensors (custom)	Yes

Certification & approvals

Certificates	E-Mark (EU), FCC (USA), CE/RED (EU), RoHS (EU), REACH (EU), Anatel, IP rating, SIRIM QAS, SDPPI POSTEL, EN12830
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