EYE SENSOR EN12830

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

LONG LIFETIME

600 mAh capacity, up to 5 years long battery life

WATER-RESISTANT

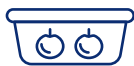IP67 protection casing with handy two mounting points

MOBILE APP

Easy to use mobile app for configuration, data scanning, and updating

CALIBRATED SENSOR

Temperature sensor is calibrated in an ISO17025-certified laboratory
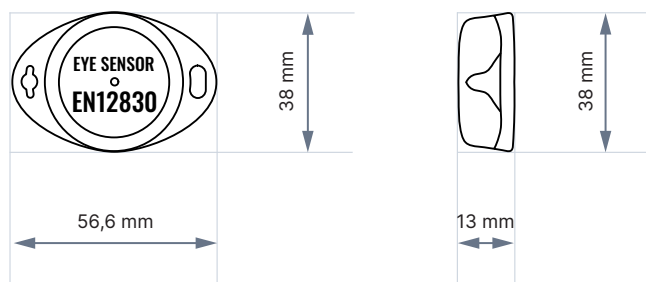
Cold chain

Food storage facilities

Industrial facilities

Pharmaceuticals

Introducing the EYE Sensor EN12830, a Bluetooth® Low Energy sensor that enhances business operations through certified temperature monitoring. This sensor holds an EN12830 certificate and delivers precise measurements with a 0.5°C accuracy class across all working ranges from -20°C to +60°C. Each temperature sensor is calibrated in an ISO 17025-certified laboratory to ensure reliability.

Designed with a food-grade casing that complies with EU and FDA regulations for food contact applications, the EYE Sensor EN12830 is perfect for tracking perishables like dairy, meat, and pharmaceuticals. It also features internal memory capable of storing temperature readings for up to 345 days, ensuring compliant monitoring.

Functionalities

Beacon ID, LED, Temperature and storing temperature data, Humidity, Accelerometer, Magnet detection, Hibernate

Dimensions and weight

Dimensions	56,6 mm x 38 mm x 13 mm
Weight	18 g

Battery and power

Model	CR2450
Type	Lithium, Manganese Dioxide (Li/MnO2)
Total Capacity	600 mAh
Replaceable	No
Battery life (Tx=2 dBm; interval: 3 s)	2.5 years
Battery life (Tx=2 dBm; interval: 5 s)	4 years (Default)
Battery life (Tx=2 dBm; interval: 10 s)	5 years

Electronic

Microcontroller	ST Microelectronics BlueNRG-2
Quartz Crystals	32.768 kHz, 16 MHz
Bluetooth operating frequency	2.402 - 2.480 GHz
Bluetooth antenna gain (peak)	1.2dBi

Connectivity

Bluetooth®	Bluetooth® 4.2 compliant
Range	80 m
Available transmission power levels	Up to 8 dBm
Sensitivity	-88 dBm

EN12830

Internal Memory Temperature Records	33,000
Internal Memory Records Download	EYE APP EN12830
Accuracy class	0.5C
Laboratory Calibrated Temperature Sensor	Yes

Casing

Protection	IP67
Mounting	Two holes to screw/leash/strip, tape
Customization	Custom logo upon request[1]

Environmental Requirements

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

Protocols compatibility

iBeacon	Yes
Eddystone	Yes
Teltonika	Yes

Certificates

CE RED (EU)	Yes
EN12830 (EU)	Yes
FCC (USA)	Yes
UKCA (UK)	Yes
RoHS	Yes
E-mark	Yes
EAC	Yes
ANATEL	Yes
REACH (EU)	Yes
SIRIM QAS	Yes
SDPPI POSTEL	Yes
TELEC	Yes
IP rating	Yes

Measuring range

Temperature measuring range	-20 to +60°C

1   Special conditions