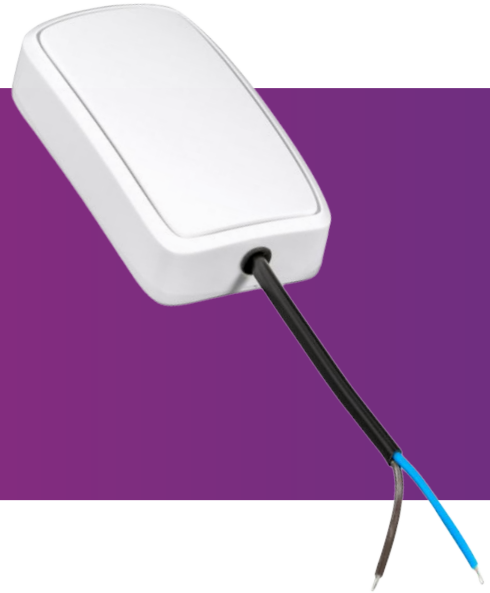
NB-IoT

Wireless I/O logger



The Efento NB-IoT wireless data logger is designed for continuous monitoring of input / output status, ensuring reliable data transmission. Using Narrowband IoT connectivity, it communicates directly over the cellular network. No gateways or additional infrastructure required.

Key Features

- **Effortless installation** - thanks to built-in NB-IoT connectivity, installation is as simple as mounting the device on a wall or placing it on a shelf - no gateways, cabling, or Wi-Fi configuration required.
- **Fast and intuitive setup** - with an integrated Bluetooth Low Energy (BLE) module and a dedicated mobile app, the sensor can be configured and activated in under 15 minutes.
- **Up to 8 years of battery life** - engineered for long-term, maintenance-free operation, the device uses intelligent data handling and optimized transmissions to achieve up to 8 years of operation on a single battery.
- **Cloud and system integration** - seamlessly connects with the Efento Cloud platform for data visualization, analysis, and alerting. Standard communication protocols also enable easy integration with custom server-based systems.
- **Remote management** - supports over-the-air firmware updates and secure remote configuration, reducing the need for on-site maintenance.
- **Continuous status monitoring** - the device continuously tracks the input / output state and automatically records each event.

Applications

The device is designed to detect changes in the state of doors, hatches, covers, or other moving elements through a change in the electrical state of the wired output. The device can be connected directly to automation systems, PLC controllers, alarm control panels, data loggers, or other monitoring systems using digital inputs. Thanks to its simple two-wire design, the sensor can be easily integrated with existing control and monitoring infrastructure.

Sensors

Status change	
Model	Device supplied with a 17 cm 2-wire cable
Measurement range	Two states - OK / Alarm (logic can be inverted)

Technical data

Data logging	
Memory size	100 000 measurements
Measurement interval	5 s - 18 hours (user-configurable)
Bluetooth interface	
Radio module frequency	2.4 GHz
Power	2.5 mW (4 dBm)
Range	Up to 100 m (LOS)
Transmision period	1 s
Bluetooth version	Bluetooth Low Energy (4.0)
NB-IoT interface	
NB-IoT bands	1, 2, 3, 4, 5, 8, 12, 13, 17, 18, 19, 20, 25, 28, 66, 70, 85
3GPP	13 i 14 (LTE Cat NB2)
Power	23 dBm ±2 dB
Communication	
Protocol	CoAP
Transmission interval	1 min - 7 days (user-configurable)
Operating and Storage Conditions	
Main unit operating conditions	Temperature: -25°C to +70°C, humidity: 0-99% RH (non-condensing)
Storage conditions	Temperature: -25°C to +70°C
Charging conditions (variants with external power supply)	Temperature: 0°C to +45°C
Certifications	
Regulatory	CE (RED), FCC
Environmental	RoHS

Variants

EAN	Power Supply	Enclosure	Weight
5905309603820	8,500 mAh battery (replaceable). Battery life up to 8 years	IP30, white ABS plastic Dimensions: 32.5 × 60 × 125 mm	150g (including battery)
5905309604056	USB-C, with a 1,300 mAh rechargeable backup battery to maintain operation in case of power loss	IP30, white ABS plastic Dimensions: 32.5 × 60 × 125 mm	135g
5905309604896	8,500 mAh battery (replaceable). Battery life up to 8 years	IP65, white ABS plastic Dimensions: 39.5 × 63.5 × 128.5 mm	205g (including battery)
5905309605480	9-26V, with a 1,300 mAh rechargeable backup battery to maintain operation in case of power loss	IP65, white ABS plastic Dimensions: 39.5 × 63.5 × 128.5 mm	190g