

# EFENTO BLUETOOTH LOW ENERGY LOGGER

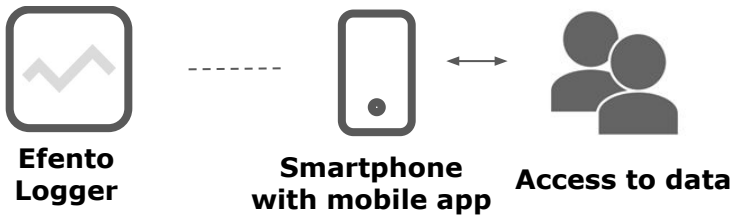
Quick and convenient configuration, long battery life, cooperation with four applications



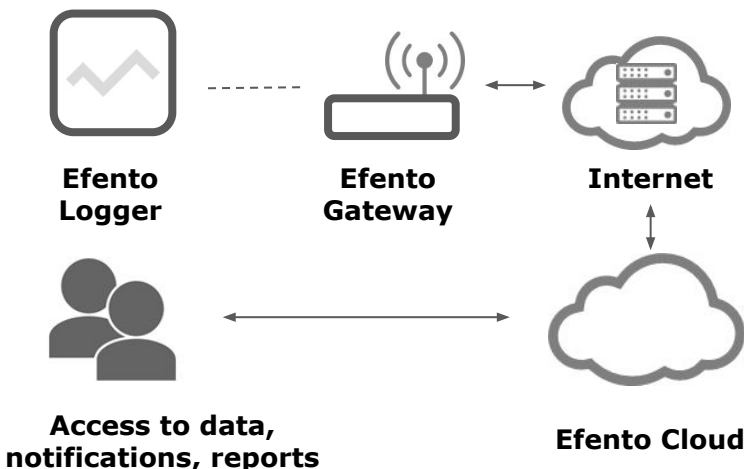
**Efento loggers measure and wirelessly transmit measurements using the Bluetooth Low Energy wireless interface. Loggers are powered by batteries that provide maintenance-free operation for at least four years.**

The recorders can cooperate with one of three free mobile applications or Efento gateway, which enables sending data to the Efento Cloud platform. Efento loggers can measure temperature, humidity, atmospheric pressure, differential pressure and leakage. If you need sensors that measure other physical values, contact us.

## WORKS WITH SMARTPHONE



## WORKS WITH GATEWAY



## KEY BENEFITS

- Quick and easy configuration
- Long battery life
- Sensors measure different physical quantities
- Cooperation with four applications: Efento Cloud, Efento Transport, Efento Inspector and Efento Logger
- Applications: pharmaceutical industry, healthcare, archives, real estate

## APPLICATIONS

Efento loggers can work with four applications depending on the user's needs

EFENTO  
INSPECTOR

Application designed to monitor temperature in medical refrigerators. Solutions meet the legal requirements for monitoring the temperature of drugs and vaccines



EFENTO  
TRANSPORT

Solution designed to monitor temperature during goods transportation based on a mobile application. Key features of the app: alarms, notifications and pdf reports.



EFENTO  
CLOUD

Cloud-based platform enabling remote monitoring of dispersed locations, data analysis, SMS / e-mail notification of deviations or generating reports



EFENTO  
LOGGER

An application that allows reading data from loggers memory, generating reports and calculating many statistics, including mean kinetic temperature



## TECHNICAL SPECIFICATIONS

### Measurements

- Memory size: 65 000 measurements
- Measurement interval: 1 second to 10 days, configurable

### Bluetooth Low Energy interface

- Communication: Bluetooth Low Energy (BLE)
- Radio module frequency: 2,4 GHz
- Power: 2,5 mW (4 dBm)
- Range: up to 100 m (LOS)
- Transmission period: 1 s
- 

### Mechanical

- Dimensions: 27 x 71 x 71 mm
- Weight: 105 g (including batteries)
- Enclosure: plastic ABS, color white
- Enclosure IP rating: IP30, IP42 with a dedicated silicone cover

### Battery

- Battery: 1 x 3,6 V, AA size, capacity 2 600 mAh (replaceable)
- Battery operation time: min. 4 years (measurement period 15 minutes)

### Environmental

- Operating
  - Temperature: -35° to 70°C
  - Humidity: 0 to 99% non-condensing
- Storage and transportation
  - Temperature: -40° to 70°C

### Software

- Efento Cloud
- Efento Logger
- Efento Inspector
- Efento Transport

## LOGGER TYPES



### Temperature

- Range: -35 ° to 70 °C
- Accuracy: +/- 0,4 °C in -20 °C to + 70 °C range and +/- 0,5 °C in -35 to -20 °C range
- Accuracy: 0,1 °C



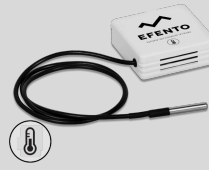
### Temperature, humidity, air pressure

- Range: -35° to 70°C / 0 to 99% RH / 330 - 1100 hPa
- Accuracy: +/- 0.4 °C in -20 °C to +70 °C range and +/- 0.5°C in -35 to -20 °C range / 4% in 0 to 80% RH, 7% in 81 to 99% RH / 3 hPa
- Resolution: 0.1°C / 1% RH / 1 hPa



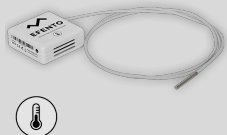
### Temperature and humidity

- Range: -35° to 70°C / 0 to 99% RH
- Accuracy: +/- 0.4 °C in -20 °C to +70 °C range and +/- 0.5°C in -35 to -20 °C range / 4% in 0 to 80% RH, 7% in 81 to 99% RH
- Resolution: 0.1°C / 1% RH



### Temperature (external probe)

- Range: -55°C to 120°C
- Accuracy: +/- 0,5°C in -10°C to +85°C range and +/- 2°C in -55°C to -10°C and +85°C to 125°C range
- Accuracy: 0,1°C



### Temperature (external probe)

- Range: -55° to 120°C
- Accuracy: +/- 0.5 °C in -10 °C to +85 °C range and +/- 2°C in -55 °C to -10 °C and +85 °C to 125 °C range
- Resolution: 0.1°C



### Flood sensor

- Sensor detects presence of water and other conductive liquids



### Differential pressure

- Range: -500 Pa do +500 Pa
- Accuracy: +/- 1 Pa
- Resolution: 1 Pa



### I / O

- Sensor detects change of state
- Works with both NO / NC types of inputs