

BLUETOOTH LOW ENERGYver. 1.0
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Wireless pulse counter - water

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Efento pulse counter is used to remotely monitor water flow through a water meter in order to control the water consumption and related expenses. You can connect it to any water meter equipped with Standard output (SO) or pulse generator. The solution is dedicated for dispersed facilities, in which control of the water consumption is impossible or expensive. Analysis of meter's data allows you to decrease water bills and quickly detect anomalies and minimize the effects of flooding. The sensor can simultaneously work with up to three water meters. By default, each counted pulse represents one liter of flowing water (l). Data is presented in the form of water flow (in liters per minute) or in the form of water consumption over a selected period of time (in m³).

You can use a free mobile application to configure the device and read the data from its memory. If you add Efento Gateway, you can build a [remote monitoring system](#)

Key features

→ **Works with Efento Cloud**

Together with Efento Cloud, the sensors enable constant monitoring, alerting about exceeding safe limits, generating reports and analyzes.

→ **Long battery life**

Loggers have been designed to work for up to 5 years on battery. You can forget about changing the battery frequently or troublesome battery charging.

→ **Lower costs**

Choosing wireless sensors and a cloud platform reduces the installation and maintenance costs.

→ **Wide range of sensors**

Efento sensors can measure various physical and chemical values. If you decide on one sensor today, you can expand your sensors fleet to another types anytime you want.

→ **Integration**

Standard communication protocols allow integration with any cloud platform or mobile application.

→ **Easy set up**

All you need to set up a logger is a smartphone with a free mobile application. The whole configuration takes no more than 15 minutes.

Technical data

Versatility

- The counter can cooperate with any device equipped with a pulse output

Minimum pulse duration

- 5 millisecond

Maximum pulse duration

- 500 millisecond

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)
- Communication standard: Bluetooth Smart (Bluetooth Low Energy, Bluetooth 4.0)
- Transmission period: 1 s

Up to 3 channels

- Simultaneous operation with up to 3 devices

Battery

- Battery: 3,6 V, size AA, capacity 2 700 mAh (replaceable)
- Battery operating time: at least 5 years (measurement interval: 15 min)

Mechanical

- Supported counters *NO (Pull-up 3.6V)*
- Dimensions: 27 x 71 x 71 mm
- Weight: 80 g (including batteries)
- Enclosure: plastic ABS, color white
- Enclosure IP rating: IP30, IP42 with a dedicated silicone cover

Environmental

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

Additional information

Universal pulse counter

Efento wireless pulse counter can work with any water meter equipped with standard output (SO). The pulse counter has three channels and can count pulses from up to three meters simultaneously.

Data security

Data transmitted wirelessly between the sensor and smartphone / Efento Gateway can be encrypted. Thanks to that, unauthorized persons cannot hijack the communication between sensors and other devices. Efento sensors' software can be updated over the air, which will allow you to easily install any security patch that is released.

Integration

If you want to integrate Efento loggers with your software, cloud platform or mobile application, we will provide you with the necessary documentation, libraries and / or SDKs.

Sensor's passport

Sensor's passport documents the entire lifecycle of a device. By accessing the data on Efento Cloud platform, the user can check all information about the sensor: date of sale, warranty status, date of calibration, information on all service activities. In addition, the user can download all documents regarding the device – a duplicate of calibration certificate or service protocols.

Dedicated silicone cover

Loggers can be equipped with dedicated silicone covers which protect the devices against mechanical damages and water splashes. Silicone cover increases the protection level of the enclosure to IP42 level.