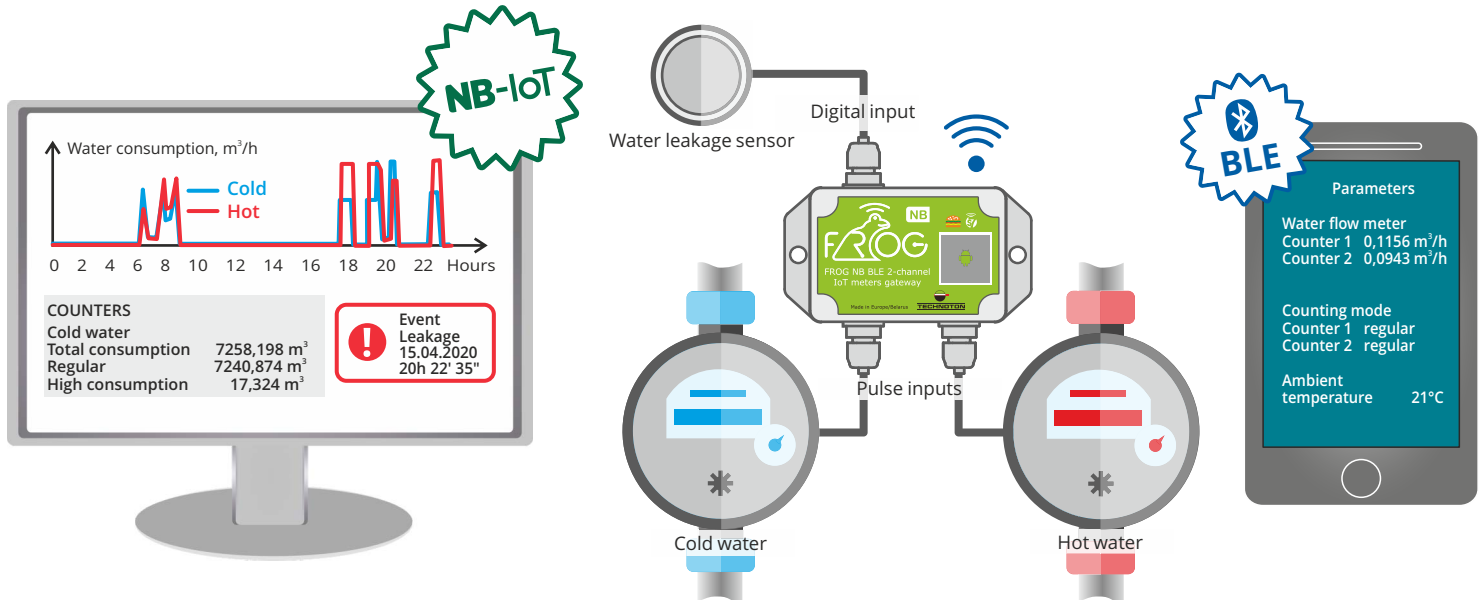




# NB IoT smart metering gateway

FROG – is a smart metering gateway for remote signal reading of water meters. Collected data is sent to a web-based server using NB IoT, also transferred to Android-devices over Bluetooth Low Energy.



## Sending data to server

Data sending occurs over NB IoT cellular technology.  
Low energy use – embedded battery inside FROG has 5 years lifecycle.  
Parameters and Counters collected by FROG are show as graphs and tables on server side. Event notifications are sent in real-time.

## Set-up and data reading with smartphone

Download **Smart flow monitor** app to receive data and configure FROG. The app allows to configure boundaries of counting modes ("no consumption", "regular", "high consumption") and Bluetooth module operation modes. The app displays Parameters and Counters, also pop-up Notifications.

## Parameters, Counters, Events

### Registered Parameters:

- ✓ Instant water consumption from two meters.
- ✓ Counting mode – "no consumption", "regular", "high consumption".
- ✓ Ambient temperature.

### Counters:

- ✓ Water consumption – total and per hour.
- ✓ Operation time – total and by counting mode

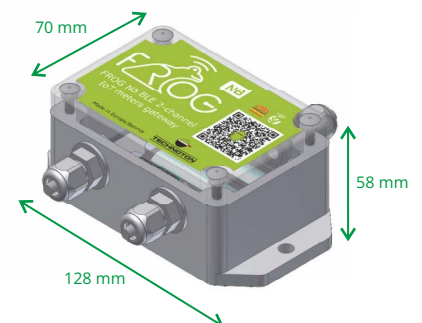
### Event notifications:

- ✓ Switching to "High consumption" mode.
- ✓ Detection of water leakage.
- ✓ Detection of magnet or case opening.

## Specifications

Network protocol	MQTT
Cellular communication technology	NB IoT
Number of pulse/digital inputs	2/1
Data transfer technology to smartphone	Bluetooth 4.2 and more
Embedded battery lifecycle	5 years
Ambient temperature	-15 ... +85 °C
Ingress Protection Rating	IP 68

## Overall dimensions



phone +420 910 122 429  
WhatsApp +420 704 067 474  
e-mail: sales@jv-technoton.com  
www.jv-technoton.com

