The Smart Monitoring Solution for WATER, GAS and ELECTRICITY Consumption

Nikolay Milovanov
nmilovanov@thingslog.com
Remote Consumption Monitoring of:

**Water**
We offer a unified solution for water consumption monitoring, leak detection and more…

**Gas**
We offer a solution for gas consumption monitoring, notifications and more…

**Electricity**
We allow you to monitor your electricity bill, be notified on unusual consumption and more…

**Pressure**
We offer a unified solution for pressure metering.
How it Works

1. Installation
   Our consumption metering devices are attached to the existing water, gas, or electricity meters. They run on batteries and last from 5 to 10 years.

2. Collect Consumption Data
   Data is sent via GSM, NB-IoT, or LoRaWAN to our analytics platform.

3. Review Consumption Data
   We provide you with a smarter way to review and assess your consumption data, identify problems or optimization opportunities, and take timely action. We want to help you run your business efficiently.

Singe data logger is able to monitor simultaneously water, gas and electricity.
Monitoring consumption platform
Benefits

✓ Monthly consumption monitoring
✓ Cost savings on your monthly bill
✓ High consumption detection
✓ Timely leak detection
✓ Fraud prevention
✓ Detection of wrongly sized meters
✓ Detection of malfunctioned metering devices
✓ Metering of locations with difficult access
Industries and Domains We Support

- **Utility Companies**
  Gather frequent data reporting which creates a good base for data analysis.
  
  Read more

- **Large Manufacturing**
  Boost your business by saving from electricity / water and gas bills.
  
  Read more

- **Hotels & Restaurants**
  Real-time detection of any leakages within your hotel / restaurant.
  
  Read more

- **Public Sector**
  Detect problems real-time, act on time and save thousands of dollars.
  
  Read more

- **Property Managers & Landlords**
  Detect problems and leakages real-time, fix the problem immediately.
  
  Read more

- **Telecom Operators**
  Enable better flexibility as well as more sustainable business model.
  
  Read more
Low power mobile data logger?
Our loggers

✓ **GSM / GPRS data logger**
  ✓ Able to monitor simultaneously pulse meters and analog sensors
    ✓ 2 analog input ports 4..20 mA
    ✓ 2 pulse metering inputs
    ✓ 2 spare inputs (ON/OFF or a third pulse/analog input port)
  ✓ Data transmission over the most widely distributed network – 2G/GSM/GPRS
  ✓ 5 years + battery life
  ✓ Replaceable battery
  ✓ With or without EEPROM
  ✓ Reconfiguration over the air
  ✓ Integrated alarm channel
  ✓ 12 bit ADC, 0.5 % accuracy with low power current measurement
  ✓ 6000 transmissions over the air
  ✓ Each transmission could be daily counters from per minute metering

✓ **NB-IoT data logger**
  ✓ Same functionality as the GSM data logger
  ✓ Longer battery life (10000+ transmissions over the air)

✓ **LoRa/LoRaWAN data logger**
  ✓ 2 input ports (either one pulse and one analog, two pulse or two analog)
  ✓ Longer battery life (10000+ transmissions over the air)
  ✓ Not suitable for minute metering
ThingsLog low level overview

- Backend Microservices
  - RabbitMQ: Message Queue
  - KairosDB: TimeSeries DB
  - PostgreSQL: Relational DB

- Frontend UI
  - ReactJS

- Platform as a service

- Infrastructure as a service
  - OpenStack
Development Process

- End to end continuous Integration
  - from cloud
  - through the ThingsLog platform
  - to the embedded data loggers
UI outlook

Consumption profile

Dashboard
Alarms/Signal levels/Batteries
ThingsLog Service
Availability & Adoption
How to order Thingslog for your home or business

- Fill our request form in Thingslog.com
- Request from your Telecom operator
- Request from your Utility provider
- Request from your maintenance utility company
Where we have demo, trial and production setups

- Biggest water utility company in Bulgaria
- Mid size natural gas provider
- One of Mobile Telecom provider in Bulgaria for end customer solution – water, gas and electricity
- Over 250 business and households in Sofia city region
Thingslog provide end-to-end solution for your home and business

All in one contract:
✓ Water meter, Gas meter and electricity meter
✓ Thingslog logger
✓ Sim card or LoRa modul
✓ Web platform to monitor your consumption
✓ Notification service in case of unusual consumption
✓ Installation and configuration

You do not need any additional contract or service provider.
Thingslog platform for Public, Utility, Telecom and Insurance companies

Thingslog provide all necessary modules to provide end-to-end solution to your end customers and business clients:

- Cloud Platform
- Smart loggers
- Notification service
- Backbone radio network
- White label platform
- Customization
- Billing platform
Contact us:

info@thingslog.com

Hightech Park Business Building,
fl. 3, office 315
1784, Sofia, Bulgaria

Phone: (+359) 875 32 80 70