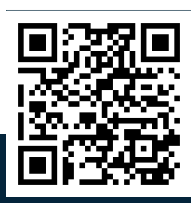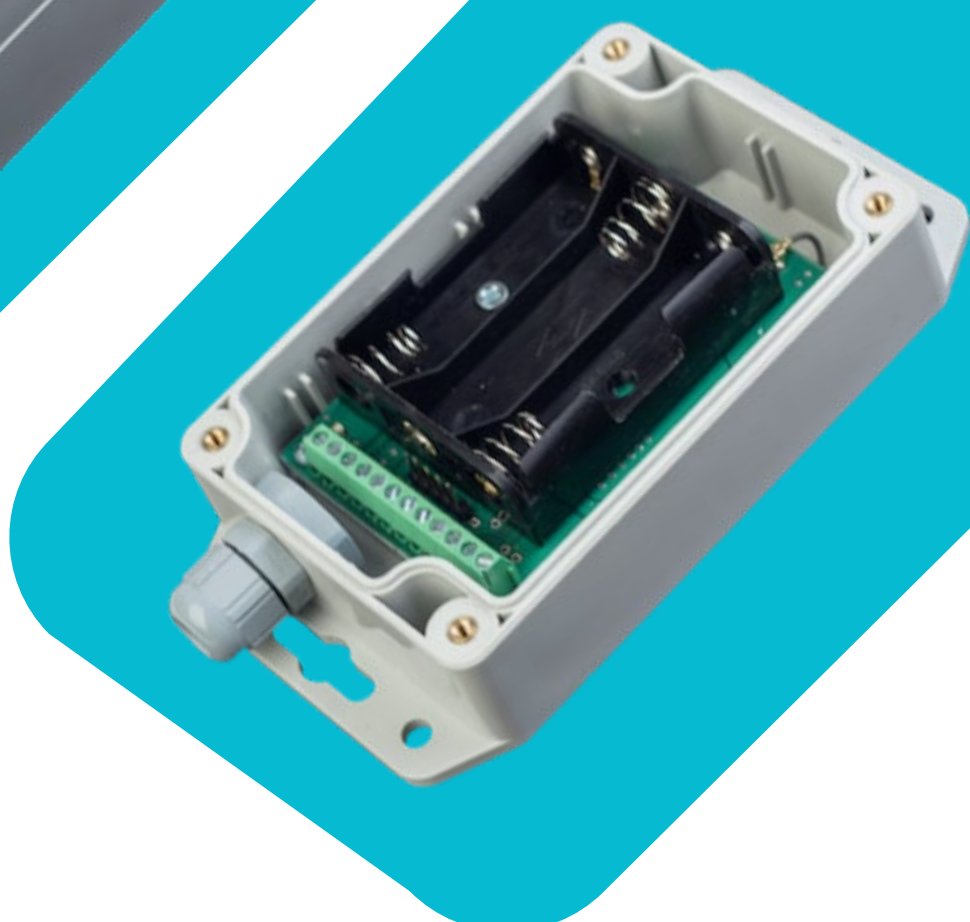# THINGSLOG

NB-IoT Data Logger LPMDL-1102

NB-IoT Data Logger
LPMDL-1102

LPMDL-1102 is a NB-IoT data logger able to monitor pulse output meters or industrial sensors

Applicable for

≫ **Electricity, gas and water** consumption monitoring and control
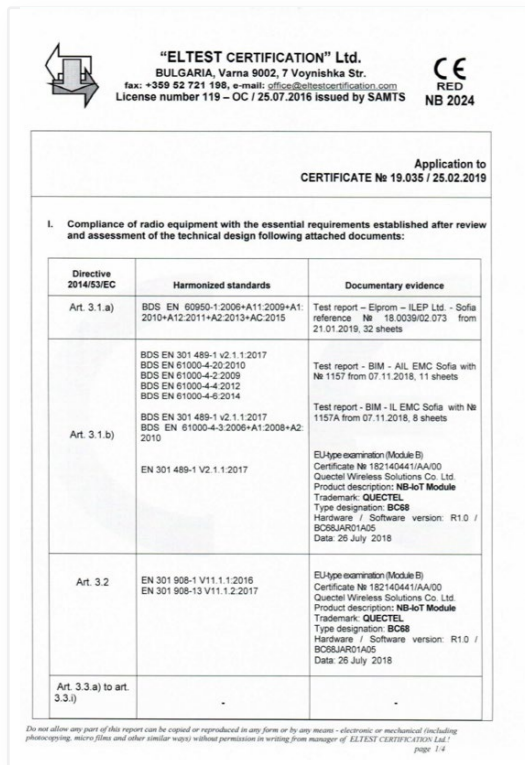≫ **Pressure, temperature and humidity** monitoring

Meter requirements
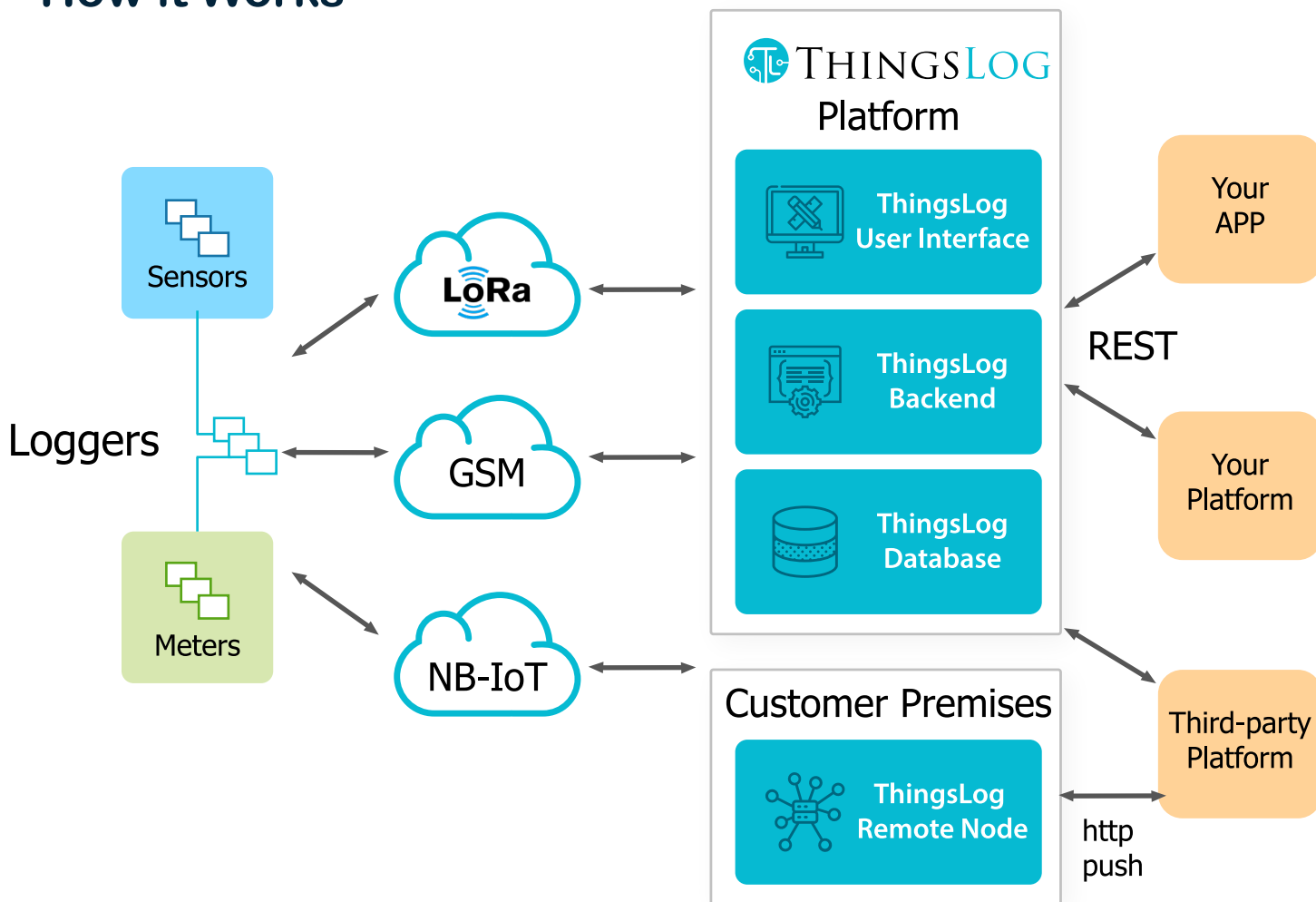
≫ Pulse output needed
Analog sensor with 4-20 mA output

Features

✓ LPMDL-1102 is an IP68 low power 4G/NB-IoT data logger

✓ Frequency Bands: B1/B3/B8/B5/B20/B28/B71 and B85 available upon request

✓ 2 analog inputs 4.20 mA or 0.5 - 4.5V (optional)

✓ 2 pulse metering inputs (reed switch or S0)

✓ 2 ON/OFF (optional could be inputs or outputs)

✓ 12 bit ADC / precision 0.5%

✓ 1x3.6 V A size Lithium battery (included), C size optional

✓ Battery life: 10+ years (12000 transmissions)

✓ Replacable batteries: 2x2AA Lithium 1.5V, Lithium 3.6V size A or C

✓ Firmware update

✓ IP68 level of moisture and dust protection

✓ With or without EEPROM

✓ Configurable metering and transmission periods

✓ Over-the-Air reconfiguration

✓ Data transmission over UDP

Logger certification

How it Works

Sensors

Loggers

Meters

LoRa

GSM

NB-IoT

THINGSLOG Platform

ThingsLog User Interface

ThingsLog Backend

ThingsLog Database

Your APP

REST

Your Platform

Customer Premises

ThingsLog Remote Node

Third-party Platform

http push

ThingsLog Platform

Remote monitoring of water, gas, electricity, level, pressure and many other

Consumption monitoring as
a service

Data management of meter /
sensor readings

Device management and
configuration

Battery and signal level
monitoring

Data visualisation
and analysis

REST API interface for integration
with other platforms

Alarms and notifications

User friendly UI and app

Self documented REST API interface:

https://iot.thingslog.com/swagger-ui.html

Additional Services Upon Request

Initial set-up

Professional services

Third-party systems integration

Training

Device pre-provisioning

NB-IoT Data Logger LPMDL-1102
Ordering Options List

ORDERING CODE	DESCRIPTION
LPMDL-1102-2-reed	2 reed pulse inputs
LPMDL-1102-2-S0	2 S0 pulse inputs
LPMDL-1102-1reed-1-S0	1 S0 and 1 reed pulse inputs
LPMDL-1102-2-2-analog	2 reed or S0 pulse inputs and 2 analog inputs
LPMDL-1102-2-2-2	2 reed or S0 pulse inputs, 2 analog inputs, 2 ON/OFF
LPMDL-1102-custom	custom

≫ Reed pulse input is a Voltage free input port suitable for meters with "dry contact" or "passive contact" pulse outputs

≫ S0 pulse input port is an open collector input for meters pulse with outputs as per EN 62053-31

≫ Optional MQTT support and 2 extra ON/OFF ports

≫ Analog ports could be delivered in current 4-20mA or voltage 0.5-4.5V mode. In current mode the sensor will be measured in a low power way in voltage mode the sensor has to be powered by external source.

≫ Each logger could be ordered also in a real time mode where it can read input values every second and to transmit in continuous mode every 10-60 seconds.

Delivery terms

≫ **30 Days** for 100+ QTY   ≫ **10 Working Days** for a Sample delivery

≫ **EXW**

Package

≫ Each device is offered **with a cable** (length options: 1, 2 or 3 meters and price: € 1 per meter) or **without a cable**

≫ **Batteries** not included, ask for options

ThingsLog Platform
Subscription

Subscription packages are reading based
A reading is one insert of the reading of the meter or
sensor into the platform

Package Options

10k	100k	1M	10M	100M
10 thousands readings per year	100 thousands readings per year	1 million readings per year	10 million readings per year	100 million readings per year

Subscription packages count for all customer's data loggers, e.g one subscription package spans across many loggers

SUBSCRIBTION PACKAGE	NUMBER OF READINGS
10K	10 000
100K	100 000
1M	1 000 000
10M	10 000 000
100M	100 000 000

Deployment Options

≫ **Remote node** – ThingsLog configuration and device management, data is pushed to
   3-rd party platforms

≫ ThingsLog on prem – ThingsLog end to end platform deployed in customer premises.

≫ ThingsLog hosted – ThingsLog instance hosted in our own cloud

≫ Ask for licensing and pricing

If you don't see your package don't hesitate to ask for a custom option on

✉ **sales@thingslog.com**

How to calculate platform subscription

MONITORED DEVICES	READING INTERVAL	READINGS PER DEVICE	TOTAL READINGS	PROPER PACKAGE
100	15 minutes	4 readings per hour 96 readings per day 35 040 readings per year	3 504 000	Between 1M and 10M
100	1 hour	24 readings per day 8 760 readings per year	876 000	1M package

How to order

Step 1.

Choose the right data logger for your business case

Step 2.

Define your initial subscription package

Step 3.

Send us a purchase order **sales@thingslog.com**