

# LOW POWER MOBILE DATA LOGGER LPMDL-110X

LPMDL-1104 | LPMDL-1105 | LPMDL-1106



 THINGSLOG



[sales@thingslog.com](mailto:sales@thingslog.com)

[thingslog.com](http://thingslog.com)

# MOBILE DATA LOGGER

## LPMDL-110X



## Applicable for

- ✓ Consumption monitoring of water, electrical and heating energy
- ✓ Industrial measurements of temperature, humidity, level, pressure
- ✓ Environment monitoring outside and inside – air quality, gasses, meteo

## Features

- ✓ Global support for 2G/4G, LoRa, NB-IoT frequencies
- ✓ 2 pulse metering inputs (e.g. for two water/gas or electricity meters simultaneously)
- ✓ 4 analog inputs with 4-20mA or 0-3V
- ✓ i2c bus port - pre-integrated with selected sensors like temperature incl. thermocouples, standard temperature, humidity, barometric pressure, gasses, e.g. CO2.
- ✓ 16 bit ADC / precision 0.01% and 24 bit ADC /
  - option for 24-bit ADC, with an onboard low-noise programmable gain amplifier (PGA) - for sensor measurement such as weigh scales, strain gauges, etc.
- ✓ Sensor power supply options
- ✓ Possibility for step up convertor up to 12V
- ✓ Relay outputs
- ✓ Alarm outputs
- ✓ Power supply options –
  - 3.6V LiSO2 battery
  - 12V external power supply
  - Solar PV panel embedded in the box and re-chargeable battery
- ✓ Between 20000 and 25000 transmissions depending on the modem type and working conditions
- ✓ Configurable metering and transmission periods
- ✓ Over-the-Air reconfiguration
- ✓ Firmware update
- ✓ IP68 level of moisture and dust protection
- ✓ Option for EEPROM
- ✓ Option for GNSS for the 4G
- ✓ Available with international roaming SIM cards

## What is new in 2024 generation?

- ✓ New modems support more than one connectivity in one logger.
- ✓ 24 bit ADC
- ✓ Solar panel and external power
- ✓ External relay control
- ✓ 4 instant threshold alarms per sensor
- ✓ GNSS option for 4G



REMOTE WATER METERING



WATER LEVEL MONITORING



WATER PRESURE MONITORING



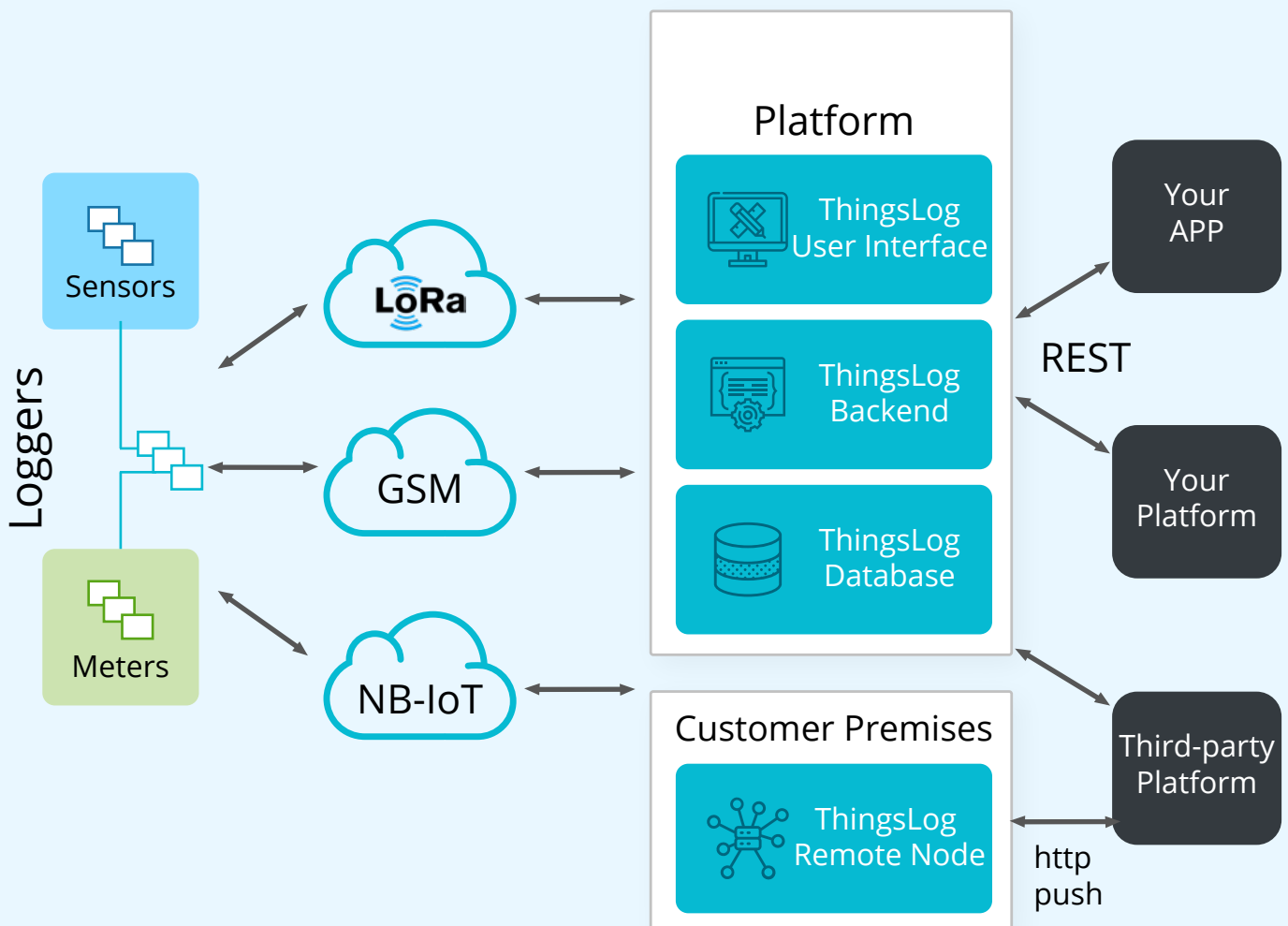
ENERGY MONITORING



SPECIFIC USE CASES - AGRICULTURE

# HOW IT WORKS

- ✓ ThingsLog data loggers standardly work with ThingsLog Cloud platform.
- ✓ All data collected by the loggers is send to ThingsLog platform over the selected network: LoRa, NB-IoT, 2G, 4G, LoRa, Cat M1.
- ✓ The platform receives the data and controls the way the devices work and transmit.
- ✓ Once the data is received it is analyzed and stored in the platform data database.
- ✓ If the platform determines that there is a notification in the data it will be forwarded to the user over email or mobile notification to the mobile app.
- ✓ If there is a 3rd party platform integration the data will be sent also to the 3rd party system.



# THINGSLOG PLATFORM

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



Industry solutions



Data visualisation  
and analysis



Alarms and notifications



Mobile app for iOS and Android



Device management and  
configuration



Data management of meter /  
sensor readings



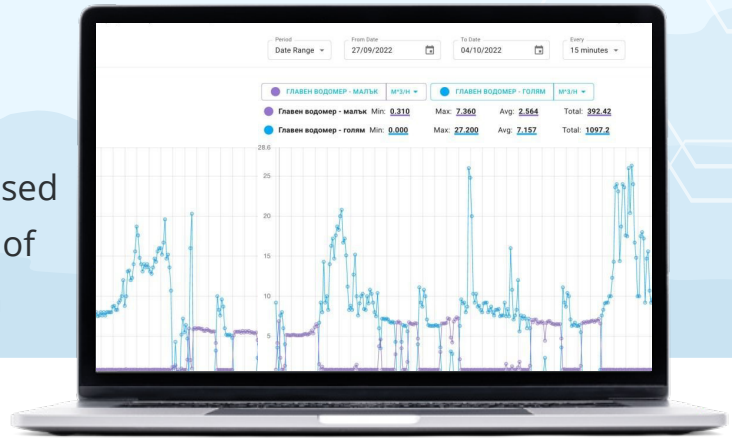
Battery and signal level  
monitoring



REST API interface for integration  
with other platforms

# THINGSLOG PLATFORM SUBSCRIPTION

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



- ✓ ThingsLog platform is a cloud service. The platform is licensed on subscription packages based on readings per year received by the loggers associated with a customer profile.
- ✓ Alternatively subscription per device is also available for smaller installations.
- ✓ One reading is the data the logger receives from one sensor/meter every hour or every other period shorter than an hour that you choose to configure. For instance, if you monitor one energy meter, recording the data every hour for 365 days, these are 8760 readings annually.

SUBSCRIPTION PACKAGE	NUMBER OF READINGS
Basic	100 000
Essentials	1 000 000
Premium	10 000 000
Per device	Per device

- ✓ Packages can be purchased in blocks, e.g. if you have 50 monitoring points and you read the data every 15 minutes, this will amount to annual number of readings of approximately 1,8 M and, you will need two essentials packages of 1M.
- ✓ Annual subscription fee for all packages includes: device management, data acquisition, data storage and ThingsLog basic platform functionality.
- ✓ ThingsLog industry solutions are priced separately.
- ✓ For specific customer requirement projects, solution proposal with individual pricing offer is presented based on the analyzed customer requirements and project scope.
- ✓ Customer help desk with standard service level is NBD (next business day, 8 hours a day, 5 working days per week).

# HOW TO ORDER



1

## Understand Your Needs

The first step of the process for us is to understand your needs in detail and, based on this to propose the right configuration of ThingsLog solution. We have subject matter experts on board for each industry solution that we offer to ensure the solution is customized specifically for you.

2

## Configure the Loggers

When you purchase the solution, we configure the loggers and integrate all the components. We operate "order to configure", which means that we customize everything based on your requirements.

3

## Ship with FedEx/DHL

Once your devices are ready we ship them to you with FedEx/DHL. Shipment fees are not included in our standard prices.

4

## Onboard

When you receive your devices, we schedule an onboarding process where one of our solution specialists guides you through the process to enable the devices, make the initial configuration of the data and start using the technology effectively.

If you have questions, we are happy to answer:

[sales@thingslog.com](mailto:sales@thingslog.com)

[thingslog.com](https://thingslog.com)