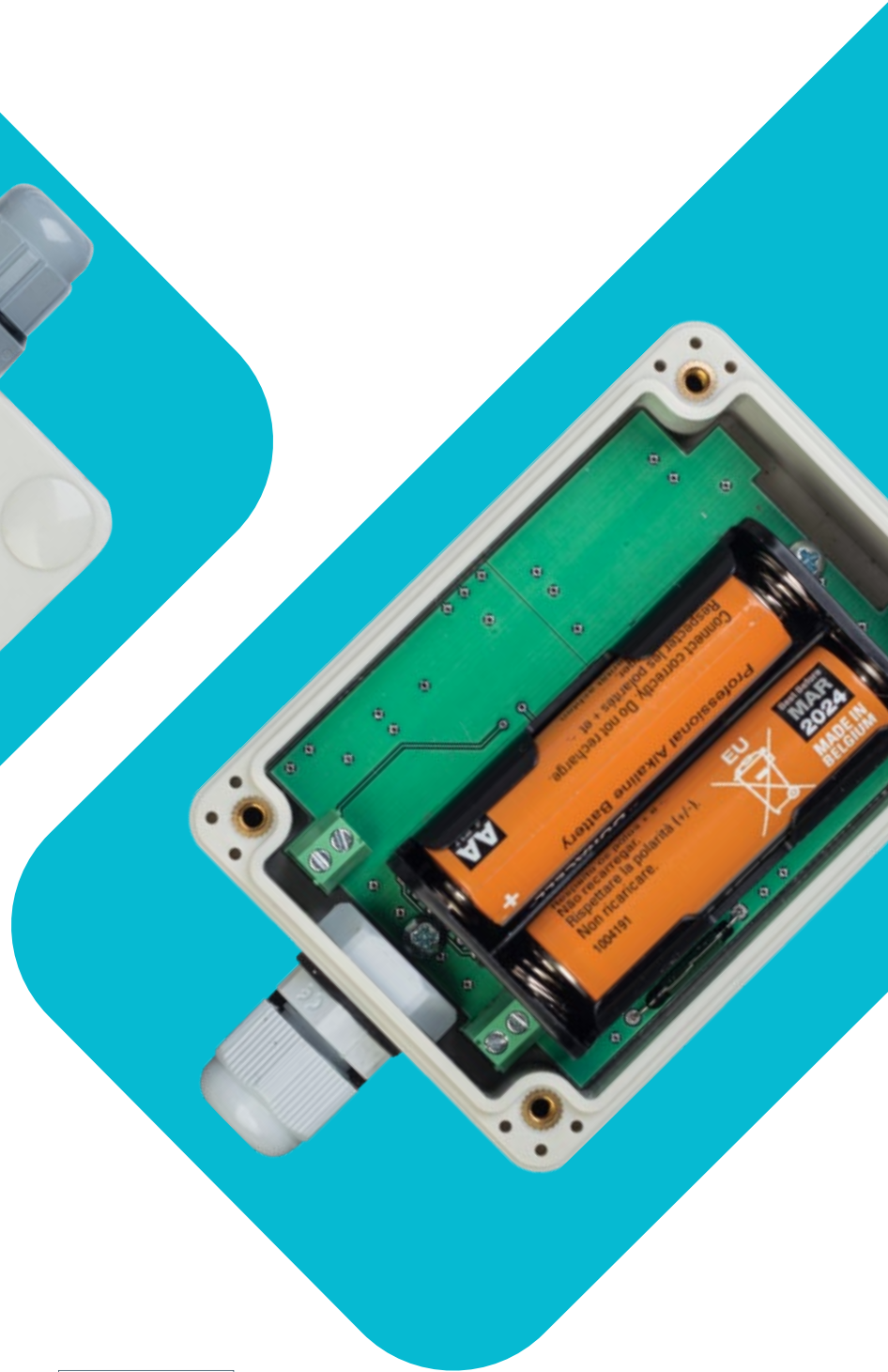




LoRa/LoRaWAN data logger LPMDL-1103



LoRa/LoRaWAN data logger LPMDL-1103

LPMDL-1103 is a LoRa / LoRaWAN data logger able to monitor pulse output meters



Applicable for

» **Electricity, gas and water**
consumption monitoring and control

Meter requirements

» Pulse output needed

Features

- ✓ Frequency bands 434/868 MHz
- ✓ Up to 2 pulse inputs
- ✓ 2 spare ON/OFF inputs or outputs
- ✓ Data transmission over LoRa/LoRaWAN network with up to 15 km of reach
- ✓ Ability to meter two water/gas or electricity meters simultaneously
- ✓ Ability to meter every 5 minutes and transmit every couple of hours
- ✓ IP68 level of moisture and dust protection
- ✓ Over-the-Air reconfiguration
- ✓ Data is exposed through a REST API

Integrated with The Things Network / The Things Industries

Batteries

- » Either with a battery holder for 2x1.5 V replaceable batteries (battery is not included, battery life 6 years or 6000 transmissions)
- » Or with 1x3.6 V A size soldered Lithium battery (battery is included, battery life **10 years** or **12,000** transmissions)



Logger Certification

Certificate

for EU survey of type

Document Number: **18.031 / 19.12.2018**

Applicant: iTransformers Labs Ltd.
Address: 21 Frederik Joliot Curie Str., 1113 Sofia, Bulgaria

Manufacturer: iTransformers Labs Ltd.
Address: 21 Frederik Joliot Curie Str., 1113 Sofia, Bulgaria

Product Description: **Low Power Mobile Data Logger**

Models: **LPMDL-1103**

Trademark: Applied

Specifications: EN 60950-1:2006+A11:2009+A1:2010+A12:2001+A2:2013+AC:2015
EN 301 489-1 V2.1.1:2017; EN 301 489-3 V1.6.1:2013
EN 300 220-1 V3.1.1:2017; EN 300 220-2 V3.1.1:2017

With this certificate **ELTEST CERTIFICATION Ltd.** certifies that the technical design described radio equipment satisfies the relevant essential requirements of Directive 2014/53/EU, after administration of:
Module B: EU type examination - Annex III of Directive 2014/53/EU

Certificate loses its validity in case the conditions under which it was issued. An integral part of this certificate is contained Annex four pages.

ELTEST CERTIFICATION Ltd. - Varna is a European Notified Body Identification № NB 2024, holding a license № 119 - OC / 25.07.2016 Issued by the State Agency for Metrology and Technical Surveillance.

Varna, Bulgaria
19.12.2018

Vladimir Kodorov
Head of Notified Body

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License number 119 – OC / 25.07.2016 issued by SAMTS

Application to
CERTIFICATE № 18.031 / 19.12.2018

I. Compliance of radio equipment with the essential requirements established after review and assessment of the technical design following attached documents:

Directive 2014/53/EC	Harmonized standards	Documentary evidence
Art. 3.1.a)	BDS EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013+AC:2015	Test report – Elprom – ILEP Ltd. - Sofia reference № 18.0016/02.026 from 19.06.2018, 32 sheets
Art. 3.1.b)	BDS EN 301 489-1 V2.1.1:2017 BDS EN 61000-4-20:2010 BDS EN 61000-4-2:2009 BDS EN 61000-4-4:2012 BDS EN 61000-4-6:2014	Test report - BIM - AIL EMC Sofia with № 1158 from 07.11.2018, 11 sheets
	BDS EN 301 489-1 V2.1.1:2017 BDS EN 61000-4-3:2006+A1:2008+A2:2010	Test report - BIM - IL EMC Sofia with № 1158A from 07.11.2018, 8 sheets
Art. 3.2	EN 301 489-1 V2.1.1 EN 301 489-3 V1.6.1	MICROCHIP EC-Declaration of Conformity Microchip Technology Inc. Model: RN2483 Product Name: Low-Power Long Range LoRa [®] Technology Transceiver Module Data: July 10, 2018
	EN 300 220-1 V3.1.1 EN 300 220-2 V3.1.1	MICROCHIP EC-Declaration of Conformity Microchip Technology Inc. Model: RN2483 Product Name: Low-Power Long Range LoRa [®] Technology Transceiver Module Data: July 10, 2018
Art. 3.3.a) to art. 3.3.i)	-	-

ThingsLog Platform

Remote consumption monitoring of water, gas and electricity.



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

LoRa/LoRaWAN data logger

LPMDL-1103 Ordering Options List

ORDERING CODE	DESCRIPTION
LPMDL-1103-1reed	Single reed pulse input
LPMDL-1103-1S0	Single S0 pulse input
LPMDL-1103-2reed	2 reed pulse inputs
LPMDL-1103-2S0	2 S0 pulse inputs
LPMDL-1103-1reed-1S0	1 S0 and 1 reed pulse inputs
LPMDL-1103-2-2-2	2 reed or S0 pulse inputs, 2 analog inputs, 2 ON/OFF

- » 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

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** - optional

ThingsLog Platform Subscription

Subscription packages are reading based
A reading is one digit read from a meter or sensor



Package options are:

10k

10 thousands readings
per year

100k

100 thousands readings
per year

1M

1 million readings per
year

10M

10 million readings per
year

100M

100 million readings per
year

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

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



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

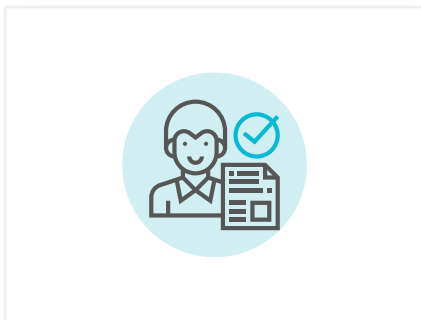
NUMBER OF DEVICES	READING INTERVAL	READINGS	PROPER PACKAGE
100	15 minutes	4 readings per hour 96 readings per day 35040 readings per year	Between 1M and 10M
100	1 hour	24 readings per day 8760 readings per year	1M package

How to order



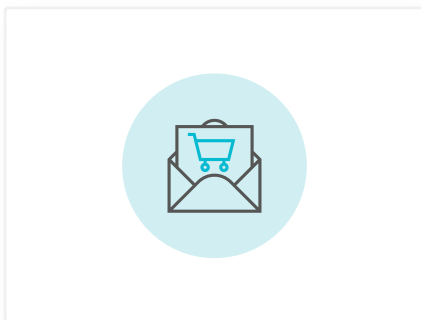
Step 1.

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