DLB.ONE

The next generation of NB-IoT
DLB POWER METER

Product Status
DLB_POWER_METER_TTL (TTL diode/LED blinking counter) DLB_POWER_METER_ANALOG (current transducer)
active, official support to 2037

First publication : 12-06-2026

Available Versions

The device is available in two versions:

1. **Optical Pulse Counter Version** – designed to count LED pulses emitted by electricity meters. This solution enables non-invasive monitoring of energy consumption without any electrical connection to the meter.
2. **Current Transformer (CT) Version** – available in both **single-phase** and **three-phase** configurations. This version measures energy consumption using current transformers installed on the power lines, providing accurate real-time monitoring of electrical loads.

Both versions offer the same convenient access to measurement data through QR code scanning and remote monitoring capabilities.

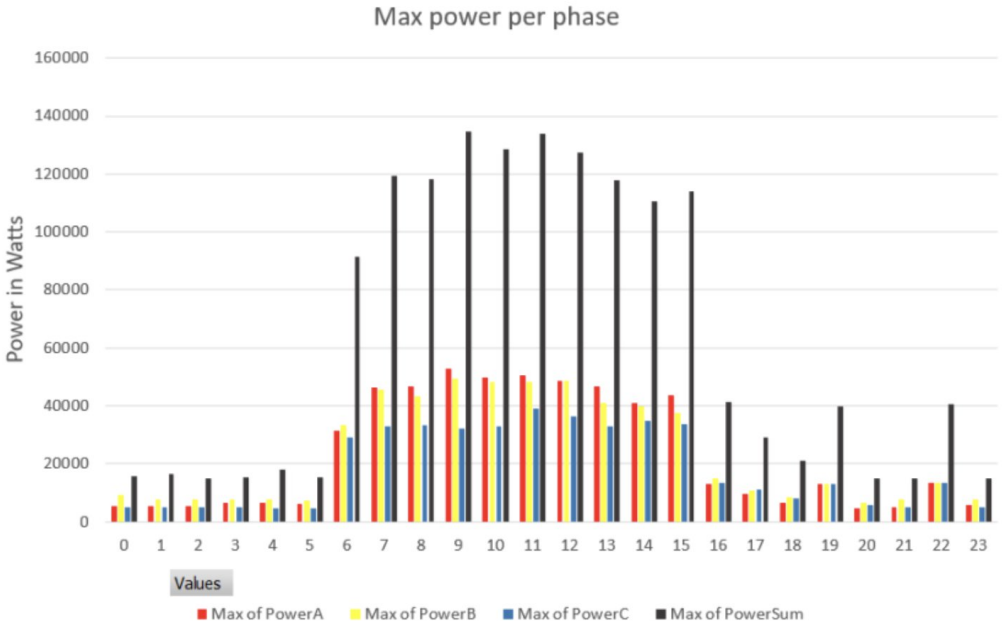
Three phase energy logger

Install this energy logger to measure and record the energy consumption of a building or specific circuits over a period of time. Get all the information you need to make an informed decision to plan backup power, solar power, or energy efficiency projects.

- The flexible current transducer coils for current sensing are easy to install in tight spaces
- The voltage sensing probes can be clamped on with crocodile clips or magnetic probes.
- It is possible to install this logger without having to switch off the power.
- Accurate data verified by calibration certificates.

This three-phase energy logger is ideal for the following.

- Determining the energy usage/load profile of a building's energy usage over a period of time.
- Determining a building's peak power usage.
- Testing the quality of supply for example voltage dips and harmonic analysis, and establishing if voltage levels are in the acceptable range for PV Inverters.



The results from the energy logging can be used for the following.

- Accurately plan solar PV systems, to determine what amount of panels are needed.
- Accurately plan backup power systems, to determine the size of the inverter and battery capacity needed.
- Accurately plan, backup generator size requirements.
- Identify cost-saving opportunities from energy efficiency measures.
- Identify cost-saving opportunities from improving a building's Power Factor
- Identify cost-saving opportunities from Peak-demand(KVA) requirements (Monitor what is causing high KVA usage and when).
- Monitor and check for phase imbalances to prevent overloading one phase.

All measurement data is exposed in JSON format and can be downloaded via API for seamless integration with external systems.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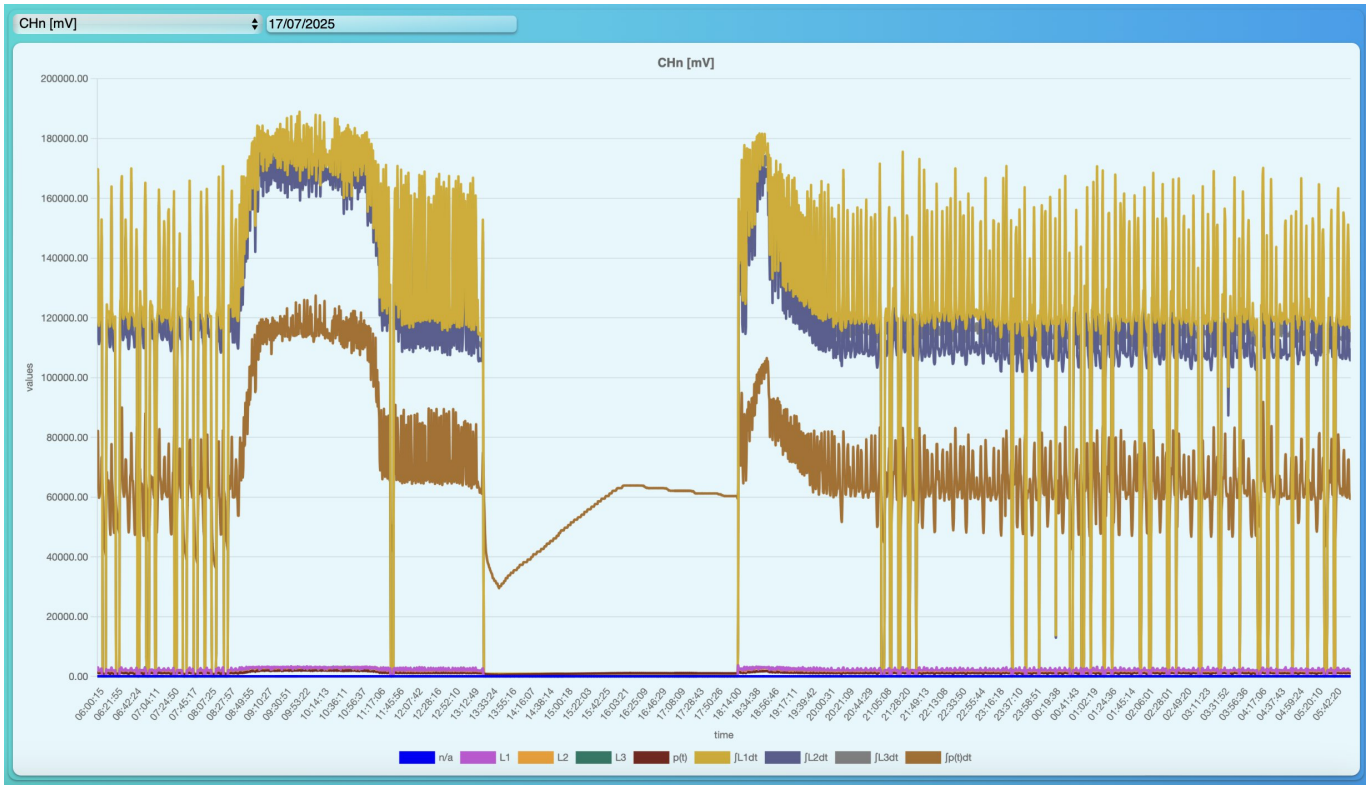


DLB.ONE

Global Access to Energy Consumption Data

Our energy meters are built on the GSMSALv1 module, providing access to real-time measurement data from virtually anywhere in the world with cellular network coverage.

The solution does not require purchasing and configuring SIM cards, creating user accounts, installing additional software, or logging into external services. The entire communication process has been simplified to ensure quick and hassle-free deployment.

Data can be accessed simply by scanning the unique QR code located on the device. Once scanned, the user is immediately directed to a web page displaying current energy consumption readings and historical measurement data using any standard web browser.

This approach makes energy monitoring simple, fast, and accessible to every user, without the need for specialized technical knowledge.

AI-Powered Energy Data Analysis

The DLB energy meters ar designed to work seamlessly with modern Artificial Intelligence tools, including ChatGPT.

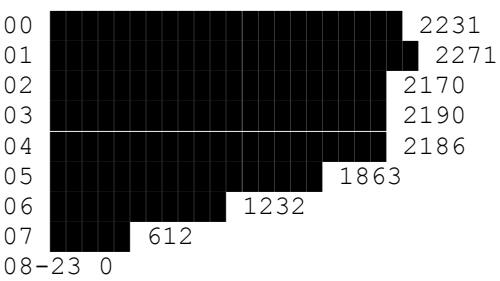
By scanning the QR code associated with the device, users can instantly access measurement data and share the displayed information with AI assistants for automated analysis and interpretation. Artificial Intelligence can help explain energy consumption patterns, identify unusual power usage, estimate operating costs, compare historical trends, and suggest potential energy-saving opportunities.

This functionality enables both technical and non-technical users to gain valuable insights from their energy consumption data without requiring specialist knowledge of electrical systems or energy monitoring.

Combining with AI-powered analysis creates a simple and intelligent way to understand and optimize energy usage in homes, offices, industrial facilities, and commercial buildings.

https://dlb.com.pl/api/tlm/v1/get.php?imsi=<yours IMSI>

1. Usage by Hour (h)



The highest activity occurs between **00:00 and 05:00**.

2. Usage by Day of Month (d)

```
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02 68321
03 67016
04 35850
05 46915
06 28466
07 29039
08 61322
09 67616
10 68201
11 65178
12 61870
13 14755
```

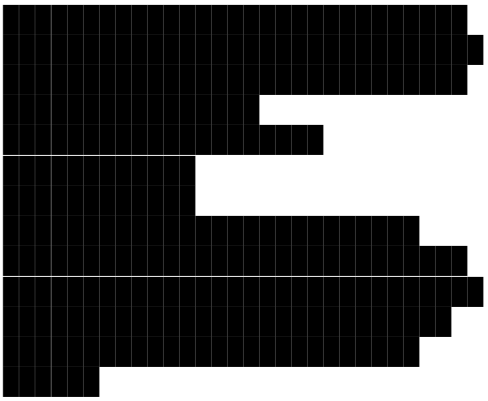

Day **13** is incomplete (data available only until **07:26**).

3. Usage by Month (m)

```
01           0
02           0
03           0
04 271,712,639
05 103,618,106
06     681,199
```

April was by far the most active month.

4. Yearly Total (y)

```
2026  376,011,944
```

Total accumulated value for **2026**.

5. Cumulative Value from Logs

Start:

```
2026-06-12 06:40  3,012,923
```

End:

```
2026-06-13 07:26  3,074,037
```

Increase:

```
61,114
```

over approximately **24 hours and 46 minutes**.

6. Current Device Status

Parameter	Value
Last update	2026-06-13 07:26:08
RSSI	-79 dBm
APN	100.1.1.1
IP	10.0.0.1

An **RSSI of -79 dBm** indicates a fairly good GSM/LTE signal level.

Our company's logo includes the founders' names, but looks like a smile throughout.