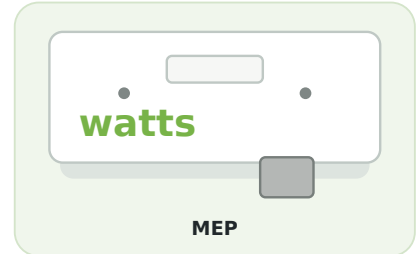


Watts Live Echelon

Communication module for live electricity meter data

Watts Live Echelon is a plug-in communication module for compatible NES Echelon electricity meters. It connects directly to the meter's MEP port and transfers electricity data via 2.4 GHz Wi-Fi to the Watts On app. In live mode, values can be updated every 5 seconds; outside live mode, data is normally transferred every 5 minutes. Optional local MQTT output enables integration with Home Assistant and other MQTT-based systems.



Key features



Direct meter connection

Powered and read through the Echelon MEP port.



Near-real-time data

Live updates down to one reading every 5 seconds.



Wireless transfer

2.4 GHz IEEE 802.11 b/g/n at the meter.



Open local integration

Compatible with MQTT and Home Assistant.

Technical specifications

Meter interface	MEP port for compatible Echelon electricity meters
Compatible meter types	Echelon type 83331 or 83332
Wireless connection	Wi-Fi 2.4 GHz, IEEE 802.11 b/g/n
Normal data transfer	Every 5 minutes
Live mode	Down to every 5 seconds
Dimensions	33 x 80.5 x 24.5 mm
Weight	70 g
Supply voltage	26 V, supplied by the electricity meter
Standby current	13 mA
Maximum current	40 mA
Enclosure rating	IP20 - not waterproof
Operating temperature	-20 °C to +70 °C



Important compatibility check

Before installation, verify meter type 83331/83332, supported grid area, any encryption-key requirement, and 2.4 GHz Wi-Fi coverage at the meter.

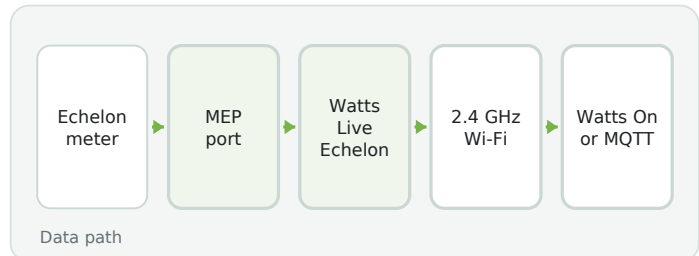
Installation, data and integration

Communication module for live electricity meter data

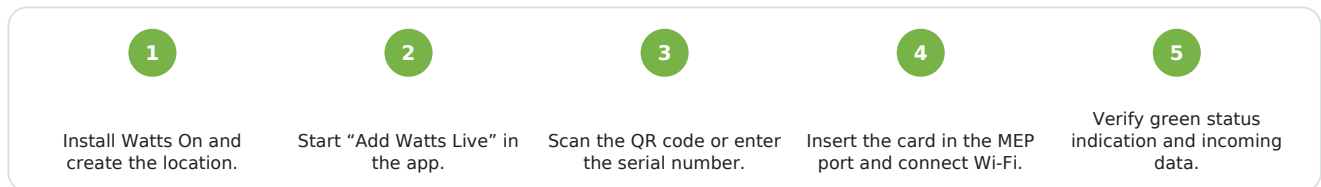
Prerequisites and data path

Before installation:

- Verify meter type 83331 or 83332.
- Check that the grid company and meter are supported.
- Obtain the encryption key if required by the grid company.
- Ensure 2.4 GHz Wi-Fi coverage at the meter.
- Use the Watts On app; Bluetooth is used during commissioning.



Setup overview

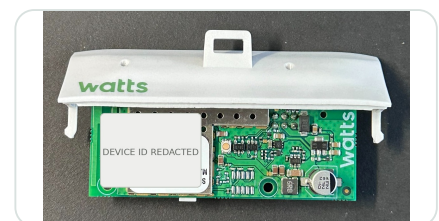


Available measurements

Measurement	Unit	Typical MQTT fields
Active energy - import / export	Wh	Positive and negative active energy
Active power - import / export	W	Total positive and negative active power
Voltage per phase	V	L1, L2 and L3 voltage
Current per phase	A	L1, L2 and L3 current
Active power per phase	W	Positive and negative power for L1-L3
Frequency	Hz	Grid frequency
Reactive energy / power	varh / var	Available in MQTT payload; Home Assistant support may vary

Local MQTT and Home Assistant

Firmware requirement: version 2.2.1 or later. The card is first commissioned in Watts On to update firmware and connect Wi-Fi. Local broker settings are configured through Bluetooth Low Energy. Measurements are published as JSON to **watts/<SERIAL_NUMBER>/measurement**. TCP or TLS transport can be selected; the documented default port is 1883.



Reference unit with device-specific ID removed

Measurement-data note: The exact fields depend on the electricity meter, installed firmware and grid-company configuration. MQTT fields for reactive energy and power are not necessarily exposed directly in Home Assistant.

Diagnostics and document notes

Communication module for live electricity meter data

Status LED - quick diagnostics

Indication	Meaning / recommended check
Solid green	Normal operation.
1 red blink	Power present, but no meter data and no Wi-Fi connection.
2 red blinks	Meter data received, but Wi-Fi is not connected.
3 red blinks	Wi-Fi connected, but no meter data; check port and encryption key.
4 red blinks	Local network, DNS or firewall prevents external connection.
5 red blinks	MQTT connection problem; check broker settings and availability.
Solid red	Hardware fault; contact support.

Operational and commissioning notes

BLE

Time-limited setup

After restart, Bluetooth Low Energy is active for up to 30 minutes for local setup.

FW

Automatic firmware

Initial setup in Watts On updates the card to the latest available firmware.

NET

Network access

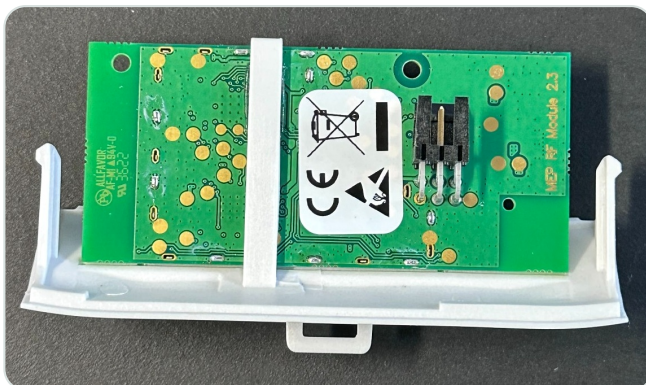
Wi-Fi, DNS and firewall rules must allow connection to the Watts services.

IP20

Indoor use

The module is not waterproof and must remain dry in or at the meter.

Reference hardware and sources



PCB marked "MEP RF Module 2.3"

Document status

This technical datasheet was compiled by DS Energy from public material and is not an original Watts A/S manufacturer datasheet.

Official sources

- Watts Live Echelon product page
- Watts Live installation guide
- Watts support: MQTT/Home Assistant
- Watts support: LED diagnostics

Sources accessed 03-09-2026. Measurement fields can vary with meter, firmware and grid-company configuration.