



eva Meter Reader Smart User Manual

[Home](#) » [EVA](#) » eva Meter Reader Smart User Manual 

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Eva Meter Reader

Contents

- 1 Introduction
- 2 Open the HAN Port
- 3 Installation
- 4 Factory reset
- 5 LED Indications
- 6 Using the button
- 7 Eva Meter Reader supports
- 8 Changing the batteries
- 9 Important safety information
- 10 Appendix
- 11 Software updates
- 12 Technical specifications
- 13 Declaration of Conformity
- 14 Documents / Resources
 - 14.1 References

Introduction

This Meter Reader for Norway connects to your AMS electricity meter through the HAN port and read your electricity consumption in real time.

Connected to your Smart home app, it gives you an updated overview of your power consumption in real time. The Meter Reader supports AMS electricity meters as Aidon, Kamstrup and Kaifa.

Open the HAN Port

The HAN port on your AMS meter is by default switched off, and you must inform your electricity company that you want it opened. You can do this on their website or by calling the customer service.

Installation

1. Open the Eva Smart Home App
2. Select “add new device” and choose Eva Meter Reader
3. Follow the in-app instructions to complete the setup process.

Connect the Meter Reader to the AMS Meter

The Meter Reader is connected to the HAN port on your modern AMS electricity meter, which you can find in the fuse box.

With the Eva Meter Reader, you can retrieve real-time data and monitor your consumption directly on your smart home system.

1. Turn on the antenna
2. Pull out the plastic tab
3. Connect the network cable to the meter reader and the electricity meter.



Every time the meter reader receives data from the power meter, the LED light will indicate this with a short blue flash.

If the meter reader is not in pairing mode

1. Remove the meter reader cover as described above to gain access to the push button.
2. Press and hold the push button for more than 10 seconds to activate connection mode on the meter reader.
When the button is released, the connection mode is indicated by the diode flashing blue rapidly three times followed by a 1 second pause).
3. Put your hub in connect mode and wait for the meter reader to pair with the hub.

Factory reset

1. Open the cover of the Meter Reader as described above to get access to the push button.
2. Hold the push-button on the Meter Reader for more than 10 seconds to reset the Meter Reader and start pairing mode.



Pairing mode is indicated by the LED with 3 short blue flashes every second.

LED Indications

COLOR	PATTERN	EXPLANATION	NORMAL
Blue	Short flash	Message from electricity meter received	OFF
Blue	Repeating: 3 short flashes, 1 second off	Pairing mode	OFF
Blue	1 second on/off toggle	Zigbee identify	OFF
Blue	Up to 10 medium flashes	Leave network: Meter Reader has been removed from the Zigbee network. Pattern will change to pairing mode pattern	OFF
Red	Flashing	Zigbee connection lost	OFF
Red	2 fast flashes	Does not recognize message from meter (Applies to software version 0.5 and up)	OFF
Red	Flashing every 3 seconds	Lost Zigbee contact (Applies to version 0.5 and up in software)	OFF

Using the button

ACTION	DESCRIPTION	EXPLANATION
Press for more than 10 seconds	Factory reset	Resets Meter Reader to factory default and starts pairing mode Note: A factory reset unpairs the Meter Reader from your gateway

Eva Meter Reader supports

- Eva Hub
- Homey
- Home Assistant (Zigbee2MQTT)
- Futurehome

Changing the batteries

1. Remove the cover.
2. Remove the old battery and insert a new one (CR123).

Note: The LED light will indicate a startup by alternating between flashing red and blue. The LED light will then flash red until the meter reader has restored communication with the hub.

3. Put the cover back on the meter reader.

Debug

DESCRIPTION	POTENTIAL CAUSES	SUGGESTIONS
No data from meter reader available	Cabling	Ensure that the cables are properly attached
No data from meter reader available	HAN port is not opened for traffic	Contact your power supplier to open the HAN port traffic

No data from meter reader available, meter reader is offline in app	Lost contact with the Zigbee network (may be due to the fuse box blocking signals from the meter reader)	1. Add powered devices like a smart plug that acts as a repeater 2. Attach the meter reader on the outside of the fuse box 3. Use an external antenna (WLAN/WIFI antenna that supports 2.4GHz and RP-SMA connector, can be purchased separately).
The meter reader displays incorrect values	The electricity meter is not supported	Contact your electricity provider and ensure that your electricity meter follows the OBIS list.

In the box

- Eva Meter Reader
- HAN port connection cable (standard LAN cable with RJ45 connectors)
- 1 CR123A battery
- Security instructions

Important safety information

For indoor use in dry environments only.

- Can be used in temperatures from 0° to 40° C.
- This product is not a toy. Keep out of reach of children.
- The product should not be placed near heat sources or directly in sunlight, as this can cause overheating.
- Use the correct battery type. Using the wrong battery entails a risk of fire and explosion.
- Do not use the device if it has visible damage.
- Dispose of the batteries according to the instructions.
- Failure to follow the recommendations in this manual may be dangerous or cause legal offences. The manufacturer will not be held responsible for any loss or damage.

Appendix

Information on disposal for users of waste electrical & electronic equipment

This symbol on the product and accompanying documents means that used electrical and electronic equipment (WEEE) should not be mixed with general household waste. For proper treatment, recovery and recycling, please take this product to designated collection points where it will be accepted free of charge. Alternatively, in some countries, you may be able to return your products to your local retailer upon purchase of an equivalent new product.

Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on

human health and the environment, which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point. Penalties may be applicable for incorrect disposal of this waste, in accordance with your national legislation.

Software updates

Software updates can be released by the manufacturer to fix bugs or enhance functionality after the product has been released. Updated software versions released will not impact continued compliance with applicable rules.

Technical specifications

General	IP Class: IP 20 (indoor) OTA upgradable
Local Communication	Radio protocol: Zigbee 3.0, HA 2.1 Frequency: 2400-2483,5 MHz (IEEE 802.15.4) Transmission power: 9dBm
Ratings	Operating temperature: 0 to +55 C Storage temperature: 0 to +55 C Operating voltage: DC 3V/42V

Declaration of Conformity

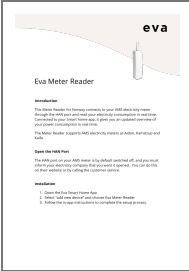
Datek Smart Home AS declares that the equipment described in this document, is in compliance with the essential requirements and other relevant provisions of EU Directive 2014/53/EU. If you require a copy of the original signed DoC, please visit <https://hjelp.evasmart.no/hc/no> or scan QR code that can be found on the packaging of this product and select documents for your product.

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Subject to change without notice 2023-11-02_v1

Documents / Resources

	eva Meter Reader Smart [pdf] User Manual Meter Reader Smart, Reader Smart, Smart
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References

-  [Eva Smarthus produkter - Eva - Smarthus gjort enkelt](#)

-  [Eva Smarthus produkter - Eva - Smarthus gjort enkelt](#)
- [User Manual](#)

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