



CASmo-DTU-HMS

Works with various SMART Home applications such as:

OpenDTU, AhoyDTU, IoBroker, Home Assistant, OpenHAB, Symcon, Node-RED, MQTT and more

Compatible with the following inverters:

Hoymiles HMS-300, Hoymiles HMS-350, Hoymiles HMS-400, Hoymiles HMS-450, Hoymiles HMS-500, Hoymiles HMS-600, Hoymiles HMS-700, Hoymiles HMS-800, Hoymiles HMS-900, Hoymiles HMS-1000, Hoymiles HMS-1600, Hoymiles HMS-1800, Hoymiles HMS-2000
Hoymiles HMT-1800, Hoymiles HMT-2250

Product features / scope of delivery

- CASmo-DTU-HMS incl. antenna and pre-flashed OpenDTU software
- USB update port for software updates by the user

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Legal information

CASmo-DTU-HMS can be freely programmed/updated with the OpenDTU software.

We disclaim all liability for damage to property or personal injury caused directly or indirectly by the installation and operation of this product. This product is intended for residential use.

Changes/updates to the mentioned and compatible inverters may affect the functionality of the interface. Software updates for our products are granted/supported to customers free of charge for up to one year after the purchase of the interface. The interface must be returned free of charge for the update. Installation and removal costs will not be reimbursed.

1. Before installation

This manual should be read prior to installation. Specialist knowledge is required for installation. The installation location must be selected so that the products are not exposed to moisture or heat.

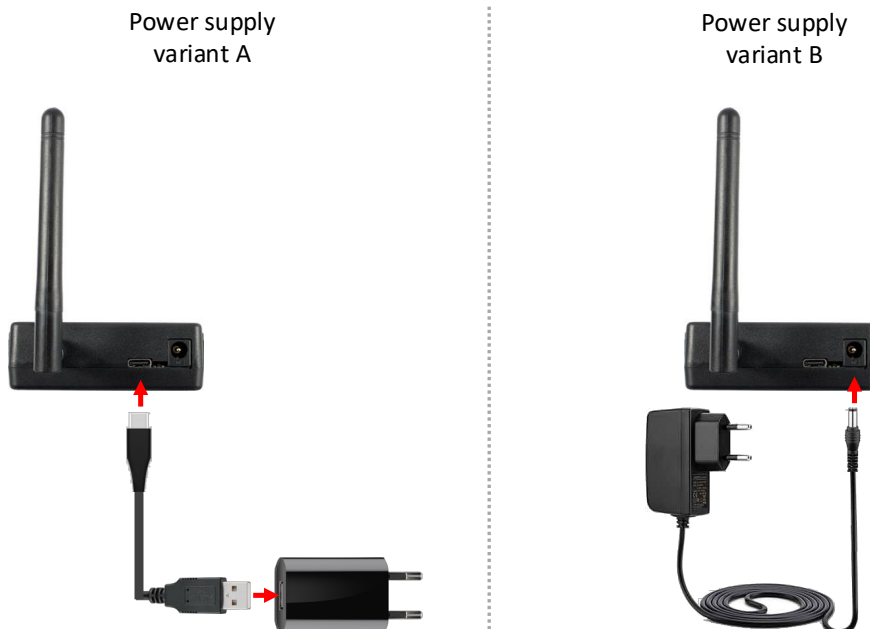
1.1. Delivery contents

- CASmo-DTU-HMS incl. antenna and pre-flashed OpenDTU software

1.2. LED's of the interface-box

LED	Status	Function
• Red	Light on	Device connected to 5V power supply
• Green	Light on	Home WLAN connected
• Blue	Light on	Inverter connected

2. Connection scheme



3. Installation

The installation location should be dry, protected from water, moisture or rain, and close to the inverter. Make sure there is sufficient WLAN coverage.

The CASmo-DTU-HMS module is powered by a USB-C 5V power supply (not included). Alternatively, power can be supplied via a 5V power supply with 5.5/2.5 mm barrel connector (not included) on the CASmo-DTU-HMS housing.

4. Activation

The CASmo-DTU-HMS is configured via the smartphone. To do this, it must first be connected to a smartphone as follows:

Open the WLAN menu of your mobile device, the CASmo-DTU-HMS will appear as a new network named OpenDTU-XXXXXXX.

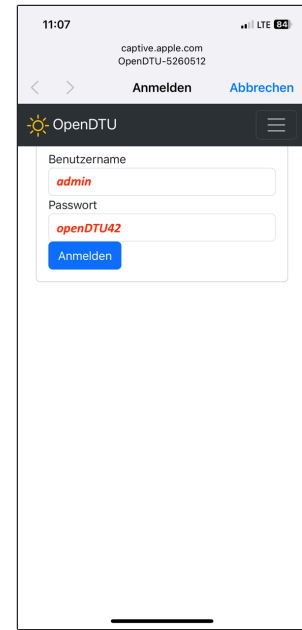
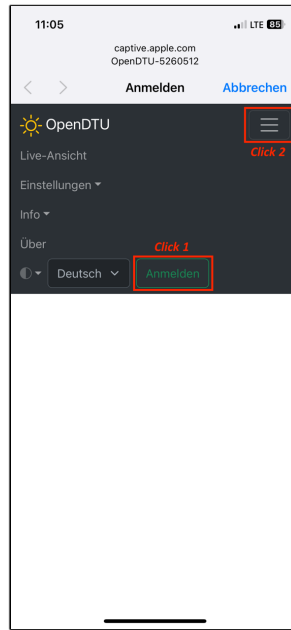
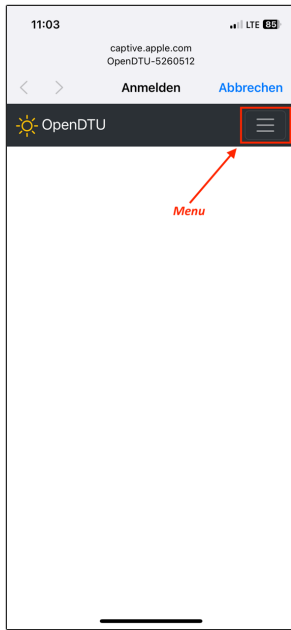
The network password is: openDTU42 (see also the back of your CASmo-DTU-HMS)



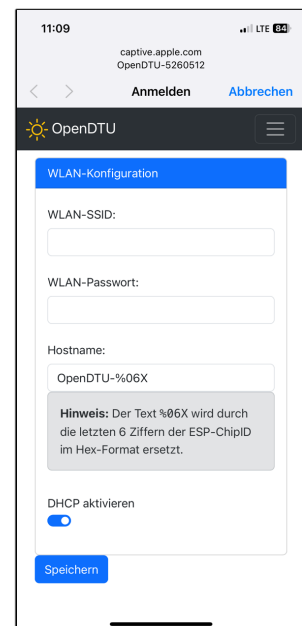
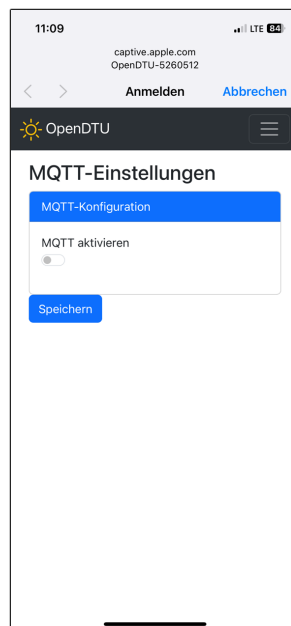
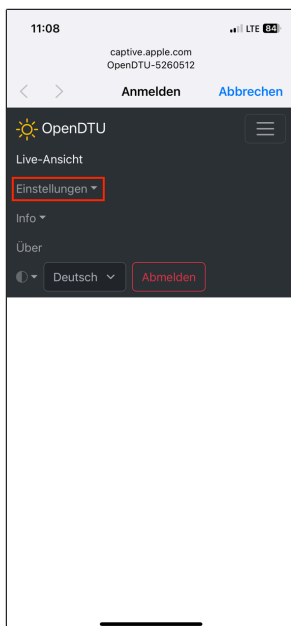
4.1. Settings

After successful login, the Open-DTU web interface opens in your main menu. The interface is intuitive and user-friendly.

A one-time system login is required for each further setting, be it the home network, MQTT server, etc. The user name is: **admin**, the password is the same as in point 4 and is **openDTU42**.



The Settings tab contains all relevant settings:



4.2. Inverter connection setting

After successfully connecting to the home network, further inverter settings are made via the web browser.

The screenshot shows the OpenDTU web interface. The top navigation bar includes 'OpenDTU', 'Live-Ansicht', 'Einstellungen', 'Info', and 'Über'. A dropdown menu is open under 'Einstellungen', with 'Wechselrichter' highlighted. The main content area displays 'Live-Daten' with a warning message: 'Sie verwenden das Standard-WLAN-Netzwerk und den Notfall Access Point. Dies ist potenziell unsicher. Bitte ändern Sie das Passwort.' Below this, there are three summary cards: 'Gesamtertrag Insgesamt' (780 kWh), 'Gesamtertrag Heute' (60 Wh), and 'Gesamtleistung' (61,4 W). A status bar shows 'HM-800', 'Seriennummer: 114174941450', 'mit: 800 W | 100 %', and 'Letzte Aktualisierung: vor 3 Sekunden'. The main data section is divided into 'Allgemein' (Temperature: 22,0 °C) and three phase tables (Phase 1, String 1, String 2) showing various electrical parameters like Leistung, Spannung, Strom, and Tagesertrag.

The screenshot shows the 'Anmeldung' (Login) page. It features a 'Systemanmeldung' section with input fields for 'Benutzername' (admin) and 'Passwort' (openDTU42). A blue 'Anmelden' button is located below the password field.

The screenshot shows the 'Wechselrichter Einstellungen' (Inverter Settings) page. It has a blue header 'Neuen Wechselrichter hinzufügen'. Below are input fields for 'Seriennummer' and 'Name', followed by a blue 'Hinzufügen' button. A 'Hinweis' (Note) states: 'Sie können zusätzliche Parameter einstellen, nachdem Sie den Wechselrichter erstellt haben. Verwenden Sie dazu das Stiftsymbol in der Wechselrichterliste.'



5. Operation

Operation/integration depends on the specific SMART application.
Follow the manufacturer's instructions.

6. Technical data

Operation voltage	5V DC
Stand-by power drain	<25mA
Operation power drain	~60mA
Power consumption	~0.08W
Temperature range	-20°C bis +80°C
Weight	44g
Measurements(box only) B x H x T	76 x 27 x 54 mm

7. Technical support



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