devolo

Home Control Central Unit

first steps

Preface

Thank you for placing your trust in this devolo product!

Carefully read all instructions before setting up the device and store the instructions for later reference.

Description of the Icons

This section contains a brief description of the icons used in this manual and/or on the rating plate, the device connector, as well as the icons used on the package:

Icon	Description
⚡	Very important safety symbol that warns you of imminent electrical voltage which if not observed can result in serious injury or death.
⚠	Very important safety symbol that warns you of an imminent threat and can lead to serious injuries or death if not avoided.
⚠	An important note that should be observed which can potentially lead to material damages.

Icon	Description
⌂	The device may only be used indoors in dry conditions.
▢	The device has a reinforced protective insulation. For the connection of movable devices of protection class II, plugs are used which have no connection for the protective conductor.
Z-WAVE	Z-Wave is an internationally recognised wireless standard that has been developed by Sigma Designs and the Z-Wave Alliance for home automation and adjacent outdoor areas and has been licensed for smart home applications worldwide.
Z-WAVE PLUS	Z-Wave Plus is an extension of the Z-Wave standard, which includes all current advances in technology.
CE	The manufacturer/distributing company uses the CE marking to declare that the product meets all applicable European regulations and has been subjected to the prescribed conformity assessment procedures.

Icon	Description
![waste electrical and electronic equipment icon]	It is used to prevent the occurrence of waste electrical and electronic equipment and to reduce this type of waste through reuse, recycling and other forms of utilisation. It establishes minimum standards for handling waste electrical and electronic equipment in the EU.
i	Additional information, background material and configuration tips for your device.
✔	Indicates a completed course of action.

Intended use

Use the Home Control Central Unit as described in these instructions and in the Home Control online FAQ to prevent damage and injuries.

DANGER!
Electric shock caused by electricity
The device must be plugged into a power socket with a connected earth wire

Caution!
Damage to the device caused by ambient conditions
Only use device indoors in dry conditions

CE conformity

When used as intended, the product conforms to the basic requirements of the directives 2014/53/EU, 2014/35/EU and the other relevant provisions of the Radio and Telecommunications Terminal Equipment Act (FTEG) and is designed for use in the EU, Switzerland and Norway. A printout of the CE declaration is included.

Safety instructions

It is essential to have read and understood all safety and operating instructions before the devolo device is used for the first time; keep them safe for future reference.

DANGER!
Electric shock caused by electricity
The device must be plugged into a power socket with a connected earth wire

Users do not need to carry out any maintenance on devolo devices. In the event of damage, disconnect the devolo device from the mains supply by pulling it or its plug out of the electrical socket. Then contact qualified specialist personnel (after-sales service) exclusively. **Damage** is deemed to have occurred, for example,

● if the power plug is damaged.
● if the devolo device has been showered with liquid (such as rain or other water).
● if the devolo device is inoperable.
● if the housing of the devolo device is damaged.

DANGER!
Electric shock caused by electricity
The Home Control Central Unit must be plugged into a socket with a connected protective conductor

The Home Control Central Unit may be operated only on a mains power supply as described on the **rating plate**.

To disconnect the Home Control Central Unit from the mains supply, unplug the device itself or its power plug from the electrical socket.

The power socket and all connected network devices should be easily accessible so that you can pull the power plug quickly if needed.

CAUTION!
Heat development during operation
Certain housing components can become very hot in certain situations. Attach device so that it is touch-proof, observing optimal positioning

The Home Control Central Unit should only be installed at locations that guarantee adequate ventilation. Slots and openings on the housing are used for ventilation:

● **Do not cover** the Home Control Central Unit during operation.
● Do not place **any objects on** dthe devolo Home Control Central Unit.
● Do not insert **any objects into** the **openings** of the Home Control Central Unit.
● The Home Control Central Unit devolo devices must not be placed directly next
● to a naked flame (such as fire or candles).
● devolo devices must not be exposed to direct
● heat radiation (e.g. radiator, direct sunlight).

⚠ **CAUTION!**
Damage to housing from cleaning agents containing solvents.
Clean only with dry cloth

Disconnect the devolo device from the mains supply to clean!

Introduction

In this chapter you will learn everything you need to know about the package contents of your Home Control Central Unit. In addition, we will explain what is behind devolo Home Control and what advantages the Z-Wave wireless standard provides for home automation.

Package contents

Please ensure that the delivery is complete before beginning with the installation of your Home Control central Unit:

- **Home Control Central Unit**:
  - ○ devolo Home Control Central Unit with powerline (dLAN) functionality
  - ○ One LAN cable
  - ○ Hard copy of installation guide
  - ○ CE declaration

What exactly is devolo Home Control?

Home Control (also known as home automation) refers to the specific control of electrically operated indoor household devices. The Home Control system by devolo uses the Z-Wave wireless standard.

The Home Control Central Unit is the heart of the devolo Home Control system. It is equipped with a user interface, called the **Home Control portal**, which is used to coordinate all of your Home Control devices. Access to the Home Control portal is very easy both from the **Home Control App** and/or at www.mydevolo.com in a browser.

What exactly is dLAN?

dLAN is an intelligent, secure technology that lets you set up a home network easily, quickly and economically via your household electrical wiring, without the need for complex and expensive dedicated cabling.

The dLAN (**d**irect **L**ocal **A**rea **N**etwork) uses the household power grid to transfer data between computers and other network components equipped with suitable adapters. As a result, any electrical socket can be used as a network access point. The data is modulated prior to transfer and sent as a signal via household power lines. State-of-the-art technology ensures that the power and data networks do not interfere with one another. Networking via dLAN is fast and secure. The data is encrypted using a key to prevent interception by third parties.

What exactly is Z-Wave and Z-Wave Plus?

Z-Wave is an internationally recognised wireless standard that has been developed by Sigma Designs and the Z-Wave Alliance for home automation and adjacent outdoor areas and has been licensed for smart home applications worldwide. This wireless communication is optimised for low energy consumption and high communication security.

All available devices are certified on the basis of their interoperability within the Z-Wave standard. This makes it possible to operate devices from different manufacturers and scopes of application in one shared wireless network. Installations such as light switches, electronic door closers, heating thermostats, blind controls and other devices such as sensors, wall switches and smoke detectors can be controlled via smartphones, tablets and/or Internet applications.

Z-Wave devices can be powered by batteries or supplied from the mains. All devices connected to the mains act as routers for all the other devices. If a signal cannot be sent directly to a receiver due to physical obstructions, the signal is automatically rerouted over other nodes. Within buildings, individual devices can communicate with each other over a distance of up to 25 metres, increasing to 100 metres outdoors. One advantage is the 868 MHz radio waves, which are able to pass through walls with relative ease.

Z-Wave Plus is an extension of the Z-Wave standard, which includes all current further developments of the technology. Depending on the product, this may involve a longer battery service life, faster operation, larger coverage of the range and/or easier device installation. Z-Wave Plus devices are compatible with devices of the Z-Wave generation

You can find more information about Z-Wave on the website for the Z-Wave Alliance:
www.z-wavealliance.org

■ *IFor more information on the control and configuration of all devolo Home Control devices, as well as application examples, please refer to the Home Control online FAQ.*

Accessing to the Home Control Central Unit via the Home Control App (for smartphone/tablet)

Open the **Home Control app** ⊳ and select your **Home Control Central Unit**.

Accessing to the Home Control Central Unit via web browser (PC/laptop)

At www.mydevolo.com ⊳ **Home Control** select your **Home Control Central Unit**.

The Home Control Central Unit

The Home Control Central Unit is the heart of the devolo Home Control system. It is equipped with a user interface, called the **Home Control portal**, which is used to coordinate all of your Home Control devices. Access to the Home Control portal is very easy both from the **Home Control app** and/or at www.mydevolo.com in a browser.

While the **Home Control app** lets you operate and control your Home Control devices easily and conveniently, access to the **Home Control portal** in your browser at www.mydevolo.com provides you with the **complete range of Home Control functions and benefits.** You can use this to carry out **initial** and **administrative actions** such as **initial registration** of the Home Control Central Unit or **teaching in** (including) and **configuring** Home Control devices.

The Home Control Central Unit provides a button for dLAN encryption (home icon), a Home Control button (check mark), a network (LAN) and a USB connection. The USB connection is provided for future applications and is not active at this time.

Figure is country-specific

Home Control button

dLAN encryption button

LAN   USB (for future applications)

Basic guidelines for setting up a Home Control network

When planning your Home Control network, consider the optimal placement of all devices with regard to the wireless range so as to best avoid weak signals and interference sources. Drawing up a sketch may help you to determine the desired locations of all your devices.

i *Weak signals due to attenuation can result from furniture, plants and especially metal objects which are located between the devices. Possible sources of interference include electrical devices such as a microwave or computer. In such instances, keep your device at least around 50 cm (19 in) away from the source.*

⚠ ***Install the Home Control devices in sequence as described with increasing distance to the Home Control Central Unit.***

Connecting the Home Control Central Unit

CAUTION!
Damage to the device caused by ambient conditions
Only use device indoors in dry conditions

There are two ways to connect the Home Control Central Unit to the internet:

Connecting the Home Control Central Unit directly to the Internet router

① Taking the above factors into consideration, plug the Home Control Central Unit into a wall outlet that is located centrally in your house or flat.

② To connect the Home Control Central Unit to the **LAN directly** at your **Internet router**, plug the **included network cable** into **both devices**.

CAUTION!
Tripping hazard
Lay the network cable in a barrier-free manner and ensure that the electrical socket and the connected network devices are easily accessible

③ As soon as you are **connected** to your **dLAN** or **LAN** network, the Home Control button (check mark) on the device **illuminates white**. If the Home Control button flashes red, there is no connection to the Home Control Central Unit.

Connecting the Home Control Central Unit to the internet router using an existing dLAN network

① Taking the above factors into consideration, plug the Home Control Central Unit into a wall outlet that is located centrally in your house or flat.

② To connect the Home Control Central Unit to the **Internet router** via your **existing dLAN network**, **first** press the **home** or **encryption button** (for 1 second) on an **existing dLAN adapter** (e.g. the one on the Internet router) in your network, and **then** – within 2 minutes – press the **dLAN encryption button** with the home icon (for 1 second) on the **Home Control Central Unit**.

③ As soon as you are **connected** to your **dLAN** or **LAN** network, the Home Control button (check mark) on the device **illuminates white**. If the Home Control button flashes red, there is no connection to the Home Control Central Unit.

⚠️ *For the Home Control Central Unit to be recognised automatically in the Home Control portal when first installed, both the Home Control Central Unit and the device with which you are accessing it must be connected through the same LAN. If instead you use separate Internet connections, you have to enter the serial number of the Home Control Central Unit manually. The serial number (e.g. S/N: 12312312312312) of the Home Control Central Unit is located on the title page of the installation guide and on the label on the rear of the unit's housing. If you have to enter the serial number, you should do so when you add the Home Control Central Unit in the portal, as described under instruction ⑨.*

Registering the Home Control Central Unit for the first time

④ To register the Home Control Central Unit for the first time, use your **PC or laptop**. In your browser, go to www.mydevolo.com.

⑤ Select **Create an account** to register a new account.

⑥ After you have confirmed your data by clicking **Apply**, you will receive a registration message at the e-mail address you indicated while creating your account. Click the link **Finish registration**, after which you will receive an activation confirmation.

⑦ Click the **my devolo** link to return to the login page, where you can now use your existing user name and password to log in.

⑧ On the dashboard page, select **Home Control**.

⑨ There, add your Home Control Central Unit by clicking the **plus** button. Confirm your input with **Apply** and follow the instructions in the Home Control portal.

From now on, you can take electronic control conveniently using the Home Control portal of the Home Control Central Unit. For more information on time control and configuration, as well as application examples, please refer to the Home Control online FAQ.

Please notice this information if you want to reset the Home Control Central Unit. If this controller is the primary controller for your network, resetting it will result in the nodes in your network being orphaned and it will be necessary after the reset to exclude and re-include all of the nodes in the network. If this controller is being used as a secondary controller in the network, use this procedure to reset this controller only in the event that the network primary controller is missing or otherwise inoperable.

Z-Wave-specific terms

Z-Wave-specific terms	Description
Controller	This is a Z-Wave device and acts as the central network manager of the Z-Wave network. Controllers are usually gateways. Battery-powered devices can also be controllers
Slave	This is a Z-Wave device with expanded capabilities for managing a network. There are sensors, actuators and slaves
Inclusion	Adding a Home Control device. This is the process of integrating a new device into the Z-Wave network
Exclusion	Removing a Home Control device. This is the process of removing a device from the Z-Wave network
Remove	Removing a Home Control device which is ● a non-working device (battery powered or 230V AC) ● displayed as offline

Z-Wave-specific terms	Description
Reset	Resetting a Home Control device to factory settings
Replace	Replacing a Home Control device by an identical Home Control product. The new Home Control device replaces the previous one completely in all its functions in the Home Control portal automatically
Learn Mode	Adding a Z-Wave Plus compatible central unit from a third-party supplier to the devolo Home Control Central Unit
Association	This is a control relationship between a controlling and a controlled device. The respective information is stored in an association group in the controlling device
Wakeup Notification	This is a special wireless message that a battery-powered device uses to provide notification that it is in wakeup status and able to receive Z-Wave® messages
Node Information Frame (Node ID)	This is a special wireless message with which a Z-Wave device provides information about its device properties

⌂ Flashing behaviour of the dLAN LED (home icon)

LED	Flashing behaviour	Description
Red LED	Flashes at intervals of **0.5 sec.** (on/off)	No dLAN connection exists
Red LED	Flashes at intervals of **2 sec.**(on/off)	Data transmission rate not in optimum range *
White LED	Lights up steady	An encrypted dLAN connection exists and the adapter is ready to operate
White LED	Flashes at intervals of **0.5 sec.** (on/off)	dLAN encryption being established
White LED	Flashing at intervals of **0.5/50-60 sec.** (on/off)	Adapter is in PowerSave mode

* For information on improving transmission rate, refer to Chapter **Bandwith optimisation**.

✓ Flashing behaviour of the Home Control LED (check mark)

LED	Flashing behaviour	Description
Red LED	Flashes at intervals of **0.5 sec.** (on/off)	No connection to the Home Control portal exists
Red LED	Lights up steady	Recovery file: The installation of the update failed for the second time
White LED	Flashes at intervals of **2 sec.**(on/off)	Booting process of the Home Control Central Unit. If the Home Control Central Unit is ready for operation, the LED goes out
White LED	Flashes at intervals of **0.5 sec.** (on/off)	Inclusion of the Home Control devices
White LED	Flashes at intervals of **0,1 sec.** (on/off)	The firmware update process is running
White LED	Lights up steady	A connection to the Home Control portal exists

Technical data

Produkt name	Central Unit (MT:2600)
Protocols	CSMA/CA (Powerline)
	Z-Wave (Wireless))
Frequencies (Z-Wave)	868,40 MHz, 868,42 MHz, 869,85 MHz
Range	Powerline: 300 m
	Z-Wave: up to 25m inhouse, up to 100m outdoors
Security	128 Bit AES (Powerline and Z-Wave)
Buttons	1x dLAN (home icon) with LED (white/red)
	1x Home Control (check mark) with LED (white/red)
Device port	1x Ethernet RJ45
	1x USB 2.0 type A (for future extensions)
Usage	indoor
Dimensions (without plug)	72 x 132 x 42 mm (BxHxT)
Operating temperature	0°C to +35°C
Ambient conditions	10 to 90% Humidity (non-condensing)
Power consumption	Maximum: 4,6 W
	Typical: 3,4 Watt
Certifications	CE Class B (EU, CH, NO)
Other	internal speakers (for future extensions)

Bandwith optimisation

If you would like to use the Home Control Central Unit as a dLAN adapter, we recommend the following "connection rules" for an improved network transfer performance:

● Plug the Home Control Central Unit directly into a wall socket.
● Avoid using a power strip. This may impair the transmission of the dLAN signals.
● If there are several sockets in the wall directly next to each other, they behave like a power strip. Individual sockets are optimal.
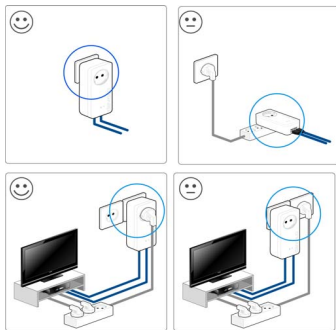

Fig. 1 dLAN bandwith optimisation

Service and warranty

Warranty: 3 years
If your devolo device is found to be defective during initial installation or within the warranty period, please contact the vendor who sold you the product. The vendor will take care of the repair or warranty claim for you. The complete warranty conditions can be found at www.devolo.com/warranty.

Great Britain	+44 203 885 0003 *	support@devolo.co.uk
Portugal	+351 308 805 675 *	support@devolo.pt
Spain	+34 912 661 965 *	support@devolo.es
Sweden	+46 840 300 137 *	support@devolo.se
Other countries	+49 241 99082 333 *	support@devolo.com

* Detailed information about the actual costs of the telephone calls can be found on the devolo website.

Disposal

The Home Control Central Unit must not be disposed of with the household waste. Instead, you can return these at no charge at your municipal collection point or at the retailer (e. g. supermarket, specialist shop).

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