

Detailed technical product information for the Home Control Smart Metering Plug

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

Intended use

Use the Home Control Smart Metering Plug as described in this product information to prevent damage and injuries.

Safety notes

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!

Electricity

Danger of electric shock

Users should never open devolo devices.

The devolo Home Control Smart Metering Plug is an intelligent wall socket that adds useful additional functions to all wall sockets present in the household. This enables connected devices to be switched on and off based on time control, either using rules configured in the Z-Wave-compatible control unit or using the corresponding app. In addition, the devolo Home Control Smart Metering Plug has an energy consumption measurement feature.

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 power outlet. Then contact qualified specialist personnel (after-sales service) exclusively. Damage is deemed to have occurred, for example:

- *If the connector 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.*

devolo devices may only be operated using a mains power supply, as described on the nameplate.

To disconnect devolo devices from the mains supply, pull the device itself or its mains plug from the power outlet. The power outlet and all connected network devices should be easily accessible so that you can pull the mains plug quickly if needed.

Use devolo devices only in a dry location and indoors.

Disconnect devolo devices from the mains supply to clean! Avoid cleaning agents containing solvents, since they can cause damage to the housing. Only use a dry towel for cleaning.

Caution!

Overheating

Product can be damaged!

Install devolo devices only at locations that guarantee adequate ventilation!

Multiple devolo devices must not be directly interlocked.

Slots and openings on the housing are used for ventilation:

- *Do not cover devolo devices when they are operating.*
- *Do not place any objects on devolo devices.*
- *Do not insert any objects into the openings of the devolo devices.*
- *devolo devices must not be placed directly next to an open flame (e. g. fire, candles) .*
- *devolo devices must not be exposed to direct heat radiation (e.g. radiator, direct sunlight).*

It is normal for the housing to get a little warm when the device is plugged in.

What exactly is 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. 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 application areas 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. 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.

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

Z-Wave-specific terms

- Controller ... 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 ... is a Z-Wave® device with expanded capabilities for managing a network. There are sensors, actuators and slaves.
- Inclusion with the Home Control Central Unit ... is the process of integrating a new device into the Z-Wave® network.
- Exclusion from the Home Control Central Unit ... is the process of removing a device from the Z-Wave® network.
- Association ... 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 ... is a special wireless message that a battery-powered device uses to provide notification that it is in wakeup status and can receive Z-Wave® messages.
- Node Information Frame ... (Node ID) is a special wireless message with which a Z-Wave® device provides information about its device properties.

What is Z-Wave® Plus?

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 classic Z-Wave® generation.

The Home Control Smart Metering Plug

The Home Control Smart Metering Plug can be plugged into any wall socket in the home. It enhances every connected device with useful functions, such as time-controlled enabling and disabling of power monitoring by a Z-Wave[®] controller and the power consumption measurement.

As a repeater, it leads the signal to be transmitted past obstacles such as attenuation factors and sources of interference, if necessary.

This device is a security enabled Z-Wave Plus[™] product that is able to use encrypted Z-Wave Plus[™] messages to communicate to other security enabled Z-Wave Plus[™] products.



The Home Control Smart Metering Plug sends a notification at a load of 11.7A, which corresponds roughly to 2.7 kW at a mains voltage of 230 V, with the status **Overload almost reached**.

At an overload of 13A or higher, which corresponds roughly to an output of roughly 3 kW at a mains voltage of 230 V, the Home Control Smart Metering Plug switches off automatically. To restore function to the Home Control Smart Metering Plug, unplug it for around 10 seconds, then plug it in again.

Note: You have the ability to exchange the firmware of the Home Control Smart Metering Plug over the air, via the Z-Wave[®] protocol, using the FIRMWARE_UPDATE command class

FIRMWARE_UPDATE

Including the Home Control Smart Metering Plug with the control unit (e.g. devolo Home Control Central Unit)

Using the LED button on the front of the Home Control Smart Metering Plug, the consumer on the wall socket can be switched manually. Additional statuses that can be triggered include **Inclusion with the control unit**, **Exclusion from the control unit** or **Reset**. When the Home Control Smart Metering Plug is plugged in for the first time, the LED flashes at intervals of 0.5 sec. This means that the device is not assigned to any Z-Wave network and is waiting to be added to your network by a controller.

The Home Control Smart Metering Plug can be included using two different procedures:

Variant A: Auto Inclusion with the control unit

1. In the Z-Wave-compatible control unit, start the procedure for adding a new device automatically.
2. Plug the Home Control Smart Metering Plug into an available power socket. The **Auto Inclusion** is run.

During the **2-minute timeout of the Auto Inclusion**, Node Information Frames are sent within a few seconds. In the auto inclusion, it is not necessary to press the ON/OFF button.

Note: You can include the Smart Metering Plug with a Security Enabled Z-Wave[®] Controller in either secured or unsecured form. In both variants, all available command classes can be selected. In **secured mode**, the command classes also have encryption.

When used in conjunction with a Security Enabled Z-Wave[®] Controller, you can fully utilize all implemented functions.

Variant B: Manual Inclusion with the control unit

If the time frame (**2 minutes**) of the Auto Inclusion procedure is exceeded, you can also include the Home Control Smart Metering Plug with the control unit manually.

1. In the Z-Wave[®]-compatible control unit, start the procedure for adding a new device (inclusion).
2. Press the button of the connected Smart Metering Plug **3x within 1.2 seconds** to start the inclusion process with the Z-Wave-compatible control unit.

Classic inclusion with the control unit (increased compatibility with older control units)

The Home Control Smart Metering Plug also supports a **Classic inclusion** with the control unit. This is particularly useful if you are using an older control unit. Thus the Home Control Smart Metering Plug is completely backwards compatible with older Z-Wave[®] devices.

1. In the Z-Wave[®]-compatible control unit, start the procedure for adding a new device (inclusion).
2. Press the button of the connected Smart Metering Plug **4x within 1.2 seconds** to start the inclusion process with the Z-Wave-compatible control unit.

Note: When Z-Wave[®] devices are included, this can also be carried out by the control unit by means of **Classic exclusion**.

The following table summarises all Z-Wave® basic functions. For instructions for including your Z-Wave-compatible control unit, refer to the product information from the manufacturer.

Function	Description	LED indicator
Inclusion with the control unit	1. Z-Wave® controller is in Auto Inclusion mode.	
	2. Press the ON/OFF button 3x within 1.2 seconds to put the device into Auto Inclusion mode.	White LED: 0.5 sec. ON, 0.5 sec. OFF
Exclusion from the control unit / removing a device	1. The Z-Wave® controller is in Exclusion mode.	
	2. Press the ON/OFF button 3x within 1.2 seconds to put the device into Exclusion mode.	White LED: 0.5 sec. ON, 0.5 sec. OFF
	3. Node ID is now removed.	0.5 sec. ON, 0.5 sec. OFF (starts with Auto Inclusion mode)
Reset	1. Press the ON/OFF button for at least 10 sec. to reset the device to the factory defaults. After the reboot, the device starts automatically during inclusion with the control unit.	
	2. IDs are excluded.	0.5 sec. ON, 0.5 sec. OFF (starts with Auto Inclusion mode)
<ul style="list-style-type: none"> • Including a Node ID using a Z-Wave-compatible control unit means inclusion with the control unit, such as the devolo Home Control Central Unit. Excluding a Node ID using a Z-Wave-compatible control unit means removing a device from the control unit. • Failed attempts to include or exclude the Node ID can be traced on the control unit. 		

LED display

The LEDs indicate the device status:

Status type	LED display
Normal	In normal operation, the ON/OFF button switches between ON and OFF. The white LED is illuminated when the device is ready to operate; when the LED is switched off, the device is also switched
Inclusion with the control unit	If the Smart Metering Plug is in Inclusion mode, the white LED flashes at intervals of 0.5 sec.
Exclusion from the control unit	If the Smart Metering Plug is in Exclusion mode, the white LED flashes at intervals of 0.5 sec.
Inclusion with the control unit failed	If the process of including the Smart Metering Plug to the control unit has failed, the red LED flashes for one minute at time intervals of 0.5 seconds.
Classic inclusion with the control unit	During classic inclusion with the control unit (backwards compatibility), the red LED flashes at time intervals of 0.08 seconds.
Overload almost reached	If the Home Control Smart Metering Plug is exposed to a load of 11.7A for two seconds, the device signals the status Overload almost reached . The red LED is displayed constantly.
Overload	The Home Control Smart Metering Plug switches off automatically at an overload of 13A for 2 sec. The red LED flashes at time intervals of 0.15 sec. To restore function to the Home Control Smart Metering Plug, unplug it for around 10 seconds, then plug it in again.

Positioning the Home Control Smart Metering Plug optimally

1. Do not expose the Smart Metering Plug to direct sunlight and/or moisture. Avoid use in dusty environments.
2. The optimal ambient temperature for the device is between 0 and 35 degrees Celsius.
3. Do not place the Smart Metering Plug in environments with combustible materials or in the vicinity of heat sources such as fire, radiators, boilers etc.

It is normal for the housing to get a little warm when the device is plugged in.

Connecting the Home Control Smart Metering Plug

Multiple Home Control Smart Metering Plugs cannot be plugged directly into one another.

Eliminate attenuation factors or sources of interference as much as possible to attain the best possible wireless range for the Home Control Smart Metering Plug. Weak signals z. 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 a computer. In such instances, keep your device at least around 50 cm from the source.

Only use the Home Control Smart Metering Plug indoors.

1. Select a power socket taking into account the above-mentioned factors and plug the Home Control Smart Metering Plug into the wall socket.
2. Then, plug the device to be controlled into the Home Control Smart Metering Plug. Ensure that the maximum load to be controlled does not exceed the limit of 13A.
3. Switch on the ON/OFF button or the device to be controlled.

4. To switch on the Home Control Smart Metering Plug manually, press the ON/OFF button. The LED and the device to be controlled switch on.
5. To switch off the Home Control Smart Metering Plug manually, press the ON/OFF button. The LED and the device to be controlled switch off.

Exclusion of the Home Control Smart Metering Plug from the control unit (e.g. devolo Home Control Central Unit)

To exclude the Home Control Smart Metering Plug from the control unit properly, follow these steps:

1. Start the exclusion mode of your Z-Wave-compatible control unit.
2. Press the button of the connected Smart Metering Plug **3x within 1.2 seconds** to remove the device from the Z-Wave-compatible control unit.

Programming

1. Basic Command Class / Binary Switch Command Class

The Home Control Smart Metering Plug responds to BASIC and BINARY commands that are part of the Z-Wave[®] system.

1-1 BASIC_GET / BINARY_SWITCH_GET

After receiving the following commands from a Z-Wave[®] controller, the Home Control Smart Metering Plug reports its ON/OFF status to the requested Node ID.

Basic Get Command: **[Command Class Basic, Basic Get]**

Basic Report Command:

Report OFF: **[Command Class Basic, Basic Report, Value = 0(0x00)]**

Report ON: **[Command Class Basic, Basic Report, Value = 255(0xFF)]**

1-2 BASIC_SET / SWITCH_BINARY_SET

After receiving the following commands from a Z-Wave[®] controller, the device to be controlled via the Home Control Smart Metering Plug switches itself on or off.

[Command Class Basic, Basic Set, Value = 1~99,255(0xFF)]: The device to be controlled via the Home Control Smart Metering Plug switches itself on.

[Command Class Basic, Basic Set, Value = 0(0x00)]: The device to be controlled via the Home Control Smart Metering Plug switches itself off.

[Command Class Switch Binary, Switch Binary Set, Value = 1~99, (255)0xFF]: The device to be controlled via the Home Control Smart Metering Plug switches itself on.

[Command Class Switch Binary, Switch Binary Set, Value = 0(0x00)]: The device to be controlled via the Home Control Smart Metering Plug switches itself off.

2. Z-Wave[®] groups (Association Command Class Version 2)

The Home Control Smart Metering Plug supports an association group with a node as a member. As the default, the node with the ID 1 is entered in this group. This corresponds to the controller ID. For this association group 1, the Home Control Smart Metering Plug reports the status of the following command classes:

SWITCH_BINARY_REPORT

METER_REPORT

ALARM_REPORT

The association can be changed with

ASSOCIATION SET

.

2-1 Auto report to Group 1 (Maximum Node ID 1)

2-1-1 ON/OFF event report

If the ON or OFF status was modified, a Binary Switch Report is sent to the Node ID of Group 1.

Binary Switch Report

ON: **[Command Class Switch Binary, Binary Switch Report, Value =255(0xFF)]**

OFF: **[Command Class Switch Binary, Binary Switch Report, Value =0(0x00)]**

2-1-2 Report due to momentary increase in power consumption of 5%

If the power consumption/current consumption of the load/device to be controlled increases by more than 5%, the Home Control Smart Metering Plug sends a measurement report to the Node ID of Group 1.

2-1-3 Overload alarm report

If the Home Control Smart Metering Plug registers more than 3 kW, it transmits an alarm message to the Node ID of Group 1.

The content of the alarm message

Alarm message command: [**Command_Class_Alarm, Alarm_Report, Alarm Type = 0x08, Alarm Level = 0xFF**]

2-2 Response to Meter Get Command

After the Smart Metering Plug has received the Meter Get Command from the Z-Wave[®] controller, it returns a response with one of the following parameters. The query is issued solely for one parameter. The following parameters can be selected:

- **kWh** = Accumulated power consumption
- **kVAh** = Total requirement for voltage and current
- **W** = Power consumption at the current time
- **Pulse count**
- **V** = Electrical voltage
- **A** = Amperage
- **Power factor**
- **kVar** = Reactive energy (connected consumer draws more electrical energy than it converts into useful energy)
- **kVarh** = Reactive energy/hour

2-2-1 Power consumption at the current time (watts) of the Home Control Smart Metering Plug

If the Home Control Smart Metering Plug receives the Meter Get command, it signals the Meter Report Command to the Node ID.

Meter Get Command: [**Command Class Meter, Meter Get, Scale =0x02(W)**]

Meter Report Command: [**Command Class Meter, Meter Report, Scale(bit 2) +Rate Type +Meter Type, Precision + Scale(bit 1,0) + Size, Meter Value 1, Meter Value 2, Meter Value 3, Meter Value 4**]

Rate Type = 0x01

Meter Type = 0x01

Precision = 1

Scale = 0x02(W)

Size = 4 Bytes (Meter Value)

Meter Value 1 = (W) MSB

Meter Value 2 = (W)

Meter Value 3 = (W)

Meter Value 4 = (W)LSB

Example:

Meter Value 1 = 0x00 (W)

Meter Value 2 = 0x00 (W)

Meter Value 3 = 0x03 (W)

Meter Value 4 = 0xEA (W)

Meter(W) = Meter Value 3 *256 + Meter Value 4 = 100.2W

2-2-2 Accumulated power consumption (KW/h)

If the Home Control Smart Metering Plug receives the Meter Get command, it signals the Meter Report Command to the Node ID.

Meter Get Command: [**Command Class Meter, Meter Get, Scale =0x00KW/h**]

Meter Report Command: [**Command Class Meter, Meter Report, Scale(bit2) +Rate Type +Meter Type, Precision + Scale(bit 1,0) + Size Meter Value1, Meter Value 2, Meter Value 3, Meter Value 4**]

Rate Type = 0x01
Meter Type = 0x01
Precision = 2
Scale = 0x00 (KWh)
Size = 4 bytes (Meter Value)
Meter Value 1 = (KWh) MSB
Meter Value 2 = (KWh)
Meter Value 3 = (KWh)
Meter Value 4 = (KWh) LSB

Example:

Scale = 0x00 (KWh)
Precision = 2
Size = 4 Bytes (KW/h)
Meter Value 1 = 0x00(KWh)
Meter Value 2 = 0x01(KWh)
Meter Value 3 = 0x38(KWh)
Meter Value 4 = 0xA3(KWh)
Accumulated power consumption (KW/h) = (Meter Value 2*65536) + (Meter Value 3*256) + (Meter Value 4)
= 800.35 (KW/h)

Resetting the accumulated power consumption

Meter Reset Command: [**Command Class Meter, Meter Reset**]

2-2-4 AC voltage (V)

If the Home Control Smart Metering Plug receives the Meter Get command, it signals the Meter Report Command to the Node ID.

Meter Get Command: [**Command Class Meter, Meter Get, Scale =0x04(V)**]

Rate Type = 0x01
Meter Type = 0x01
Precision = 1
Scale = 0x04(V)
Size = 2 Bytes (Meter Value)
Meter Value 1 = High Byte (V)
Meter Value 2 = Low Byte (V)

Example:

Scale = 0x04 (V)
Precision = 1
Size = 2 (2 Bytes of V)
Meter Value 1 = 0x09(V)
Meter Value 2 = 0x01(V)
AC voltage = (Meter Value 1*256) + (Meter Value 2) = 230.5 (V)

2-2-5 Alternating current (I)

If the Home Control Smart Metering Plug receives the Meter Get command, it signals the Meter Report Command to the Node ID.

Meter Report Command: [**Command Class Meter, Meter Report, scale(bit 2) +Rate Type +Meter Type, Precision + Scale(bit 1,0)+ Size, Meter Value 1, Meter Value 2**]

Meter Get Command: [**Command Class Meter, Meter Get, Scale =0x05(I)**]

Meter Report Command: [**Command Class Meter, Meter Report, scale(bit 2) +Rate Type +Meter Type, Precision + Scale(bit 1,0)+ Size, Meter Value 1, Meter Value 2**]

Rate Type = 0x01

Meter Type = 0x01

Precision = 2

Scale = 0x05(I)

Size = 2 Bytes (Meter Value)

Meter Value 1 = High Byte (I)

Meter Value 2 = Low Byte (I)

Example:

Scale = 0x05 (I)

Precision = 2

Size = 2 (2 Bytes of I)

Meter Value 1 = 0x01(I)

Meter Value 2 = 0x21(I)

Alternating current = (Meter Value 1*256) +(Meter Value 2) = 2.89 (A)

2-2-6 Power factor (PF)

If the Home Control Smart Metering Plug receives the Meter Get command, it signals the Meter Report Command to the Node ID.

Meter Get Command: [**Command Class Meter, Meter Get, Scale =0x06(PF)**]

Meter Report Command: [**Command Class Meter, Meter Report, Scale(bit 2) +Rate Type + Meter Type, Precision + Scale(bit 1,0)+ Size Meter Value 1**]

Rate Type = 0x01

Meter Type = 0x01

Precision = 2

Scale = 0x06(PF)

Size = 1 Byte

Meter Value 1

Example:

Scale = 0x06 (PF)

Precision = 2

Size = 1 (1 Byte of PF)

Meter Value 1 = 0x63(PF)

Effective power (PF) = Meter Value 1 =0.99

Z-Wave® configuration

Configuration parameters	Function	Size (bytes)	Value	Unit	Standard	Description
1	Watt counter	2	0x01-0x7FFF	5 sec.	720	$720 \cdot 5s = 3600s = 1h$
2	Reporting period	2	0x01-0x7FFF	10 min.	6	$6 \cdot 10min = 1h$
3	Definition of warning of current load (A)	2	10-1500	0.01 A	1300	$1300 \cdot 0.01A = 13A$
4	Definition of warning of load fuse protection (kWh)	2	1-10000	1 kWh	1	
5	Mode for restoring status	1	0-2		1	0: Switch off 1: Last device status 2: Device on
6	Switch OFF mode	1	0-1		1	0: disabled 1: enabled
7	LED display mode	1	1-3		1	1 : Show device status 2 : Show nighttime mode 3 : One-flash mode
8	Auto-off timer	2	0-0x7FFF	1 sec.	0	0: Disable auto-off function $1-0x7FFF: 1s-32767s$
9	Device from command status	1	0-3		0	0: Switch off 1: Ignore 2: Switch device 3: Device on

3-1 Watt counter reporting period:

If 1 hour is set (target value =720), the Home Control Smart Metering Plug reports its power consumption at the current time every hour to the Node ID of Group 1. The maximum reporting period is 45 hours ($5s \cdot 32767 / 3600 = 45hr$).

3-2 kWh counter reporting period:

If 1 hour is set (target value =6), the Home Control Smart Metering Plug reports its accumulated power consumption every hour to the Node ID of Group 1. The maximum reporting period is 227.55 days ($10s \cdot 32767 / 1440 = 227.55$ days).

3-3 Definition of warning of current load (A)

If the current load exceeds the defined value (target value: 1300), the Home Control Smart Metering Plug sends a warning message to the Node ID of Group 1. The setting values are between 10 and 1300; the default value is 1300.

3-4 Definition of warning of load fuse protection (kWh)

If the kW load exceeds the defined value (target value: 10,000, for an elevated accumulated power consumption of Relay 1), the Home Control Smart Metering Plug sends a warning message to the Node ID

of Group 1. The minimum is 1 kWh; the default value is 10,000.

3-5 Mode: Restoring the status

If the Home Control Smart Metering Plug is disconnected from the mains power supply and then reconnected to the mains power supply, depending on the configuration, it will trigger the **Switch OFF**, set the **Last Switch State** or set the **Switch ON**. The default setting is always the last switch state.

3-6 Mode: Switch OFF

If **Switch ON/OFF** is set to 0, both the **Switch OFF** command and the ON/OFF button are disabled. The default setting is the enable switching.

3-7 LED display mode

3-7-1 Display device status

When the Home Control Smart Metering Plug is switched on, the LED is on; when the Home Control Smart Metering Plug is switched off, the LED is off. In the default setting, the device status is displayed.

3-7-2 Show nighttime mode:

When the Home Control Smart Metering Plug is switched on, the LED is off; when the Home Control Smart Metering Plug is switched off, the LED is on.

3-7-3 One-flash mode:

If the device status changes, the LED flashes briefly (1 sec.) and then goes out.

3-8 Auto-off timer:

If the Home Control Smart Metering Plug switches to ON, the auto-off timer starts counting down. After the timer is set to zero, the device shuts off automatically. If the auto-off timer function is set to 0, it is disabled. The default setting is 0.

3-9 Command mode: wireless OFF

If the command **Switch OFF BASIC_SET** , **BINARY_SWITCH_SET** , **SWITCH_ALL_OFF** is received, this can be interpreted in four different ways:

1. Switch OFF

The Home Control Smart Metering Plug switches itself off (default setting).

2. Ignore

The command **Switch OFF** is ignored.

3. Switch device

The Home Control Smart Metering Plug switches to the opposite state.

4. Switch ON

The Home Control Smart Metering Plug switches itself on.

4. Protection Command Class

The Home Control Smart Metering Plug supports Protection Command Class Version 2. This protects the Home Control Smart Metering Plug from unauthorised use, for example by a child. In addition, the device can be protected from being switched erroneously via the controller using the setting "No RF Control".

If the Home Control Smart Metering Plug is set to the "Protection by sequence" status, the ON/OFF button must be pressed longer than 1 second each time it is pressed in order for the status on the device to be changed.

The teach-in behaviour of the Home Control Smart Metering Plug is not affected by the protection function, as this cannot be protected.

Technical data

Operating voltage	230 V/50 and 60 Hz
Maximum load	13A
Minimum range	30 m (inside) 70 m (outside) (line of sight)
Operating temperature	0 °C ~ 35 °C
Frequency band	868.40 MHz & 869.85 MHz EU/CN(PAN11-1B/-2B/-3B/-B)

Z-Wave® command classes

The Home Control Smart Metering Plug supports the following command classes:

- * COMMAND_CLASS_ZWAVEPLUS_INFO
- * COMMAND_CLASS_VERSION_V2
- * COMMAND_CLASS_MANUFACTURER_SPECIFIC
- * COMMAND_CLASS_DEVICE_RESET_LOCALLY
- * COMMAND_CLASS_SECURITY
- * COMMAND_CLASS_POWERLEVEL
- * COMMAND_CLASS_ASSOCIATION_V2
- * COMMAND_CLASS_ASSOCIATION_GRP_INFO
- * COMMAND_CLASS_SWITCH_BINARY
- * COMMAND_CLASS_BASIC
- * COMMAND_CLASS_ALARM
- * COMMAND_CLASS_CONFIGURATION
- * COMMAND_CLASS_METER_V4
- * COMMAND_CLASS_SWITCH_ALL
- * COMMAND_CLASS_PROTECTION_V2
- * COMMAND_CLASS_SCENE_ACTUATOR_CONF
- * COMMAND_CLASS_SCENE_ACTIVATION
- * COMMAND_CLASS_FIRMWARE_UPDATE_MD_V2

Service and warranty

Germany: 3 years

If there is a defect within the warranty period, please call the service hotline. For the complete warranty terms, please visit our website at www.devolo.com/warranty.

We cannot accept your device without an RMA number, nor can we accept shipments that are not prepaid.

Austria/Switzerland: 3 years

If your devolo device is defective when first used or within the warranty period, please contact the supplier where you bought the devolo product. The supplier will handle getting a replacement or repair for you from devolo. For the complete warranty terms, please visit our website at www.devolo.com/warranty.

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Austria	+43 12 675 110 *	support@devolo.at
Switzerland	+41 848 220 825 *	support@devolo.ch

* For detailed information on costs incurred from the phone call, refer to our website.



Z-Wave® is a wireless communication standard developed by [Sigma Designs](http://www.sigmadesigns.com) and the Z-Wave® Alliance for home automation.

A comprehensive specification of all communication aspects and certification of the products ensures interoperability of all devices that communicate via Z-Wave®.



When used as intended, the product conforms to the basic requirements of the 2014/53/EC and 2014/35/EC directives and the other relevant provisions of the German 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 with the product. It can also be downloaded from www.devolo.com.



The Home Control Smart Metering Plug 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. specialist shop).