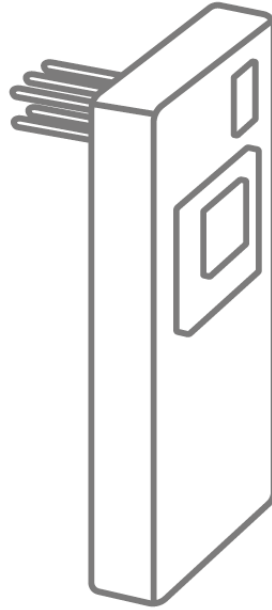




Security Tech Germany



Instruction manual

Important notes and FAQs about this product and other products can be found on the Internet page

www.abus.com/product/PLAC90210

Version 1.1



Keep for future use!

Introduction

Dear customer, dear customer,

Thank you for purchasing this product.

In order to maintain this condition and ensure safe operation, the user must observe these operating instructions!

**If you have any questions, please contact your specialist trade partner
or contact our customer service:**

Mail: ABUS Support, Linker Kreuthweg 5, 86444 Affing, Germany

E-mail: support@abus-sc.com

Phone: +49 8207 959 90 888

Hotline opening hours: Mon-Thu: 08 - 17 h; Fri: 08 - 14 h

All contained company names and product names are trademarks of their respective owners. All rights reserved.



Data storage is subject to country-specific data protection guidelines.



Disclaimer

These operating instructions have been prepared with the utmost care. Should you nevertheless notice any omissions or inaccuracies, please let us know in writing at the above address.

ABUS Security-Center GmbH accepts no liability whatsoever for technical and typographical errors and reserves the right to make changes to the product and operating instructions at any time without prior notice.

ABUS Security-Center shall not be liable or responsible for any direct or indirect consequential damages in connection with the equipment, performance and use of this product. No guarantee is given for the content of this document.

safety instructions

Intended Use

Only use the device for the purpose for which it was built and designed. Any other use is considered unintended. All guarantee claims are invalid in the event of damage caused by non-compliance with this safety information. We cannot be held liable for resulting damage.

Declaration of conformity

ABUS Security-Center hereby declares that the enclosed product comply with the requirements of the following directives: RED Directive (2014/53/EU), EMC Directive (2014/30/EU), Low Voltage Directive (2014/35/EU) and RoHS Directive (2011/65/EU). The full EU Declaration of Conformity text

can be found at: www.abus.com/product/PLSP90000

It can also be obtained at the following address:

ABUS Security-Center GmbH & Co. KG, Linker Kreuthweg 5, 86444 Affing, GERMANY

Important safety information - Unpacking the device

Handle the device with extreme care when unpacking it. Packaging and packaging aids can be reused and, as far as possible, should be sent for recycling. If the original packaging has been damaged, inspect the device first. If the device shows signs of damage, return it in the original packaging and inform the delivery service.

Installation location/operating environment

Do not place any heavy objects on the device. The device is only designed for operation in spaces with appropriate temperatures or humidity (e.g. bathrooms), or excessive accumulation of dust. Please refer to the individual devices' technical data for more detailed information. Ensure that: adequate ventilation is always guaranteed; no direct sources of heat can affect the device; interior devices are not exposed to direct sunlight or strong artificial light; the device is not in the immediate vicinity of magnetic fields (e.g. loudspeakers); no naked flames (e.g. lit candles) are placed on or next to the device; sprayed or dripping water is prevented from coming into contact with interior devices and caustic fluids are avoided; the device is not operated in the vicinity of water, in particular, the device should never be submerged (do not place objects containing fluids, e.g. vases or drinks, on or near the device); no foreign bodies penetrate the device; the device is not exposed to wide temperature variations, as otherwise there may be condensation from humidity causing electrical short circuits; the device is not exposed to excessive shock or vibration.

Children

Keep electrical devices out of reach of children. Never allow children to use electrical devices unsupervised. Children may not always properly identify possible hazards. Small parts may be fatal if swallowed. Keep packaging film away from children. There is a risk of suffocation. This device is not intended for children. If used incorrectly, parts under spring tension may fly out and cause injury to children (e.g. to eyes).

Cleaning

- Dusty devices must be cleaned. You can clean dust from the air vents using a vacuum cleaner or compressed air. If necessary, you can remove the dust with a brush.
- You can clean the surface using a cloth slightly dampened in soapy water. Only use suitable microfiber cloths for high-gloss surfaces.
- Do not allow water to penetrate the device.
- Do not clean the device in a dishwasher.
- Do not use sharp, pointed, abrasive or corrosive cleaning materials or hard brushes.
- Do not use chemicals.
- Do not use flammable liquids for cleaning the device.

Information on device disposal

Important: The EU Directive 2012/19/EU regulates the proper return, treatment and recycling of used electronic devices. This symbol means that in the interest of environmental protection the device must be disposed of separately from household or industrial waste at the end of its service life in accordance with applicable local legal guidelines. Disposing of used devices can be done at official recycling centers in your country. Obey local regulations when disposing of material. Further details on returns (also for non-European countries) can be obtained at your local authority. Separate collection and recycling saves natural resources and ensures that all the provisions for protecting health and environment are observed when recycling the product.

Table of contents

- 1. Introduction 5
- 2. Installing the Z-Wave Module 5
 - 2.1. Connect the Module & Power-up the Gateway 5
 - 2.2. Download the ABUS Nexello App 6
 - 2.3. Initial Gateway (Nexello) setup 6
 - 2.4. Login 6
- 3. Include (Add) a Z-Wave device 6
- 4. Exclude (Remove) a Z-Wave Component 7
- 5. Network reorganization 8
- 6. Network Reset 9
- 7. Exclude (Remove) a defective or lost device from component list 9
- 8. Z-Wave Configuration 9
 - 8.1. Association group **Fehler! Textmarke nicht definiert.**
 - 8.2. Different Brands 9
 - 8.3. Security 10
 - 8.4. Z-Wave Command Class 10

1. Introduction

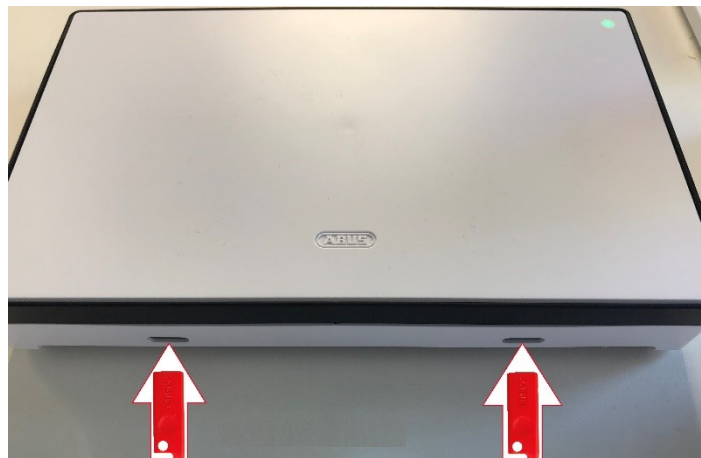
This module uses an UART interface to get connected with different Gateways e.g. the ABUS Nexello Security system. With this module the user could enlarge existing systems with the capability to use the Z-Wave protocol.

The ZM5202 is flashed with the latest original Z-Wave firmware. Easy to connect and a slim size are key features. The module comes with a ceramic onboard antenna. The connection with the target Gateway is made with 2*3 UART Pins.

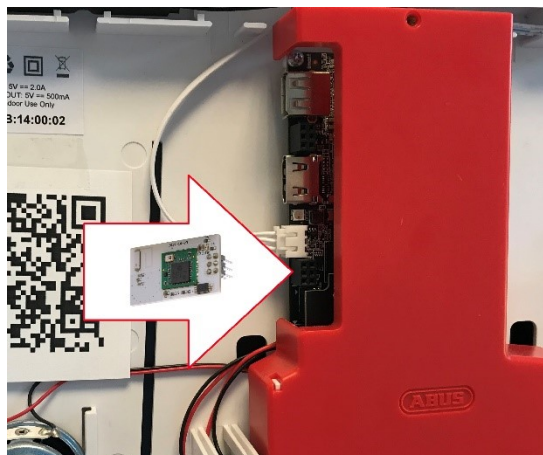
2. Installing the Z-Wave Module

2.1. Connect the Module & Power-up the Gateway

Open the housing of the Nexello Security-Panel by using the Opening-Tools



Connect the Z-Wave Module to the Gateway by plugging it onto the lower 2*3-Pin UART socket (as shown on the picture below)



Make sure that all 6 Pins of the Module are connected properly to the socket.

Connect the LAN Cable, DC-Power adapter and battery to boot the gateway.

2.2. Download the ABUS Nexello App

You can find the Nexello App on Google Play or the IOS App store. Make sure to choose the App from developer "ABUS Security-Center"



2.3. Initial Gateway (Nexello) setup

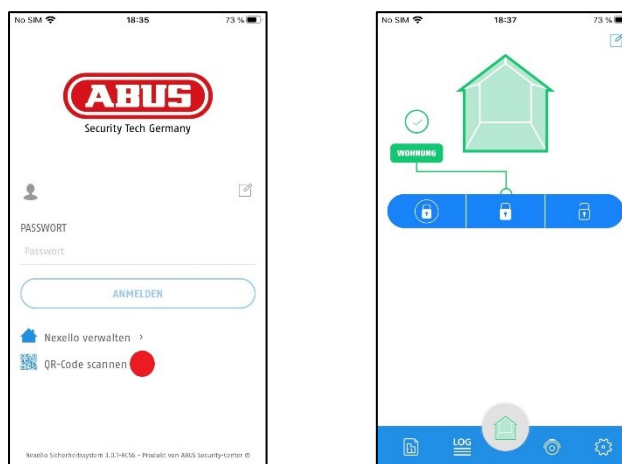
In order to setup the Nexello System, you have to become a registered Installer at the Web Portal:

<https://nexello-pilot.abus.com>

Pls. follow the registration & setup process for your account and use your Installer ID/QR-Code for verification within the Nexello App.

2.4. Login

Start the Nexello App and you get to the login-screen. Press "Scan QR-Code" and scan your Installer-ID/QR-code on the following screen. You will be re-directed either to the initial-configuration wizard or (once completed) to the Dashboard of the Nexello App.



3. Include (Add) a Z-Wave device

To add a Z-Wave device to the gateway you need to set the gateway into inclusion mode. You may either include a new Z-Wave device following the room-view or via the Z-Wave configurations.

Room-view:

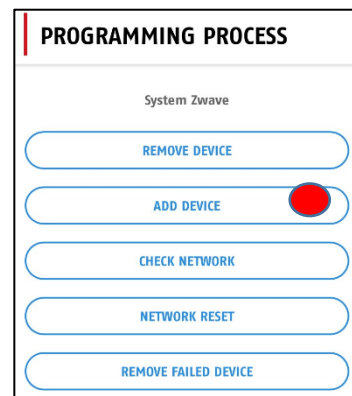
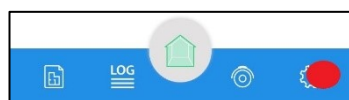
- Click on the room-overview and then on a room-icon. After that, enable the edit mode by clicking on the pencil button at the upper right edge of the menu.
- Then click on the icon "add a new device"



- You may either include an ABUS Z-Wave device (by choosing ABUS) or any other Z-Wave device (by choosing others).
- Follow the inclusion steps of the respective device.
- You may choose secure (S2 authenticated, S2 unauthenticated) or unsecure (S0) inclusion.
- For authenticated inclusion, pls fill in the initial 5 digits of the DSK code that is provided with the device.
- For the inclusion you need to set the device into inclusion mode.
- Once the gateway detects the Z-Wave device it will start the interview.
- Once the interview is completed the gateway will sound a success tone and the app will confirm the successful inclusion.
- If the inclusion was not successful (e.g. time-out) pls perform it again.
- It may be necessary that the component is set to factory-settings first. – Please perform these steps according to the respective component instructions.

Z-Wave configuration

- Click on the settings button and follow the settings directory like this:
 - Settings → server-settings → Z-Wave Configurations
- Click on the button “Add Device” to include the device.
- Follow the inclusion steps of the respective device.
- Once the device is included, it will be put into the room “service”.

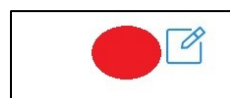
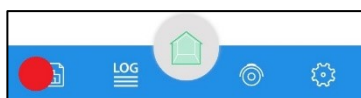


4. Exclude (Remove) a Z-Wave Component

To remove a device you need to set the gateway into exclusion mode. You may either exclude a Z-Wave device following the room view or via the Z-Wave configurations.

Room-view:

- Click on the room-overview and then on the room-icon that contains the component you want to remove. After that, enable the edit mode by clicking on the pencil button at the upper right edge of the menu
- Then click on the (x) button on the upper right of the component icon

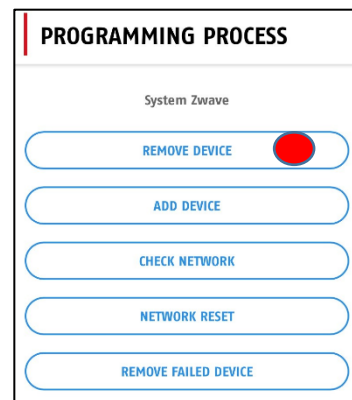
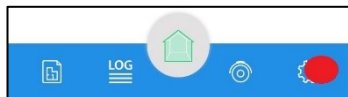


- Follow the exclusion steps of the respective device.

- Once the exclusion is completed, the App will confirm the successful exclusion.
- If the exclusion was not successful pls perform it again, or try No. 7, Exclude a defective or lost device from components list.

Z-Wave configuration

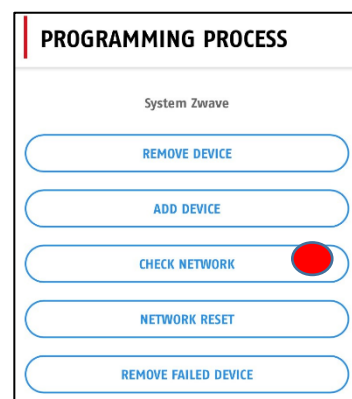
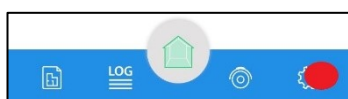
- Click on the settings button and follow the settings directory like this:
 - Settings → server-settings → Z-Wave Configurations
- Click on the button “Remove device” to exclude the device.
- Follow the exclusion steps on the respective device.
- Once the device is excluded it will also no longer show up in the respective room.



5. Network reorganization

the function „Check Network” performs a reorganization of the Z-Wave network relationship. It calls for every node to redetect it’s neighbors. This operation will work if there is a working route to this device and this device is not sleeping. If the operation fails, the algorithm will have three more attempts to reflect possible routes to the very device that may be reestablished during the reorganization. Detection of neighbors for battery-operated devices will be started after all mains-operated devices are processed. The requests to battery-operated devices will be queued.

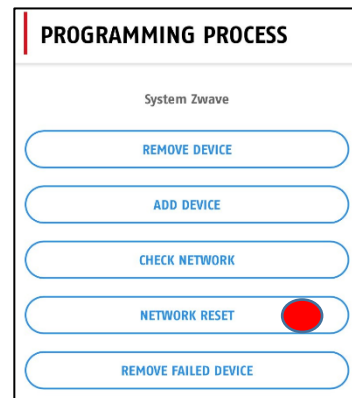
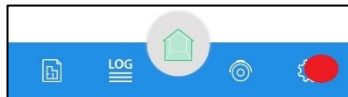
- Click on the settings button and follow the settings directory like this:
 - Settings → server-settings → Z-Wave Configurations
- Click on the button “Check Network”



6. Network Reset

This function will reset the Z-Wave Module and delete all included Z-Wave devices. Once this function is performed, the Z-Wave devices will also no longer be visible in the App. - Please keep in mind that the reset of the Z-Wave Network will result in the nodes (Z-Wave components) still have the home ID of the gateway stored and must be reset before they can be included again. This function should only be used in event of inoperable network conditions or in case of Gateway factory reset.

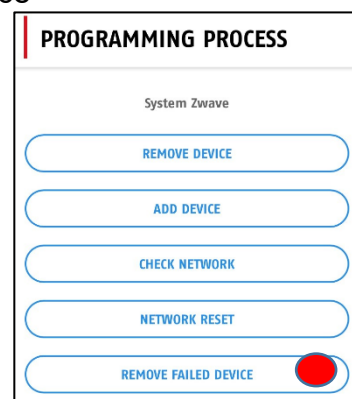
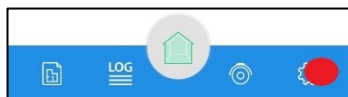
- Click on the settings button and follow the settings directory like this:
 - Settings → server-settings → Z-Wave Configurations
- Click on the button “Network Reset”



7. Exclude (Remove) a defective or lost device from component list

This function will remove a node (Z-Wave component) from the Z-Wave module and Gateway. Please keep in mind that the node will still have the home ID of the gateway stored and must be reset before it can be included again.

- Click on the settings button and follow the settings directory like this:
 - Settings → server-settings → Z-Wave Configurations
- Click on the button “remove failed device”



8. Z-Wave Configuration

8.1. Different Brands

This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All mains operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network. Z-Wave certified devices can be included and excluded normally. Included devices will show on device list. All non-battery powered nodes can act as repeaters regardless of manufacturers.

8.2. Security

This controller is a security enabled Z-Wave Plus product. If required, it will use encrypted Z-Wave Plus messages to communicate to other security enabled Z-Wave Plus products.

8.3. Z-Wave Command Class

Supported Z-Wave Command Classes:

0x22	Command_Class_Application_Status	version 1
0x56	Command_Class_CRC-16_Encapsulation	version 1
0x74	Command_Class_Inclusion_Controller	version 1
0x8F	Command_Class_Multi_Command	version 1
0x78	Command_Class_Node_Provisioning	version 1
0x98	Command_Class_Security_0_(S0)	version 1
0x9F	Command_Class_Security_2_(S2)	version 1
0x6C	Command_Class_Supervision	version 1
0x8A	Command_Class_Time	version 2
0x55	Command_Class_Transport_Service	version 2
0x5E	Command_Class_Z-Wave_Plus_Info	version 2

Controlled Command Classes:

0x20	Command_Class_Basic	version 2
0x30	Command_Class_Binary_Sensor	version 2
0x5b	Command_Class_Central_Scene	version 3
0x33	Command_Class_Switch_Color	version 3
0x70	Command_Class_configuration	version 4
0x62	Command_Class_Door_Lock	version 4
0x6F	Command_Class_Entry_Control	version 1
0x87	Command_Class_Indicator	version 3
0x32	Command_Class_Meter	version 5
0x71	Command_Class_Notification	version 8
0x9C	Command_Class_Sensor_Alarm	version 1
0x31	Command_Class_Sensor_Multilevel	version 11
0x79	Command_Class_Sound_Switch	version 2
0x25	Command_Class_Switch_Binary	version 2
0x26	Command_Class_Switch_Multilevel	version 4
0x63	Command_Class_User_Code	version 2
0x84	Command_Class_Wake_Up	version 2