

AZWG10200

ABUS PSTN/IP converter



EN



Version 1.0
AZWG10200

Preface

Dear Customer,

Thank you for purchasing this PSTN/IP converter. This device is built with state-of-the-art technology and complies with current domestic and European regulations. Conformity has been verified, and the CE Declaration of Conformity is available from the manufacturer on request (www.abus-sc.com).

To guarantee safe operation, it is essential that you observe these installation instructions.

We want to provide you only with devices that incorporate state-of-the-art technology, which is why we reserve the right to make technical modifications.

We also reserve the right to make changes to this manual without prior notice.

If you have further questions, please contact your specialist dealer.

Safety information

To avoid the risk of electric shock, never open the device during operation.

No part of the product may be changed or modified in any way; otherwise the device warranty will be invalidated.

The dialler may only be used within the specified temperature and protection class range. Using the device outside of the prescribed ranges leads to faster wear and tear and premature failure. All required information on this can be found in the technical data at the back of these instructions.

Do not expose the equipment to significant physical stress (knocks, vibrations, etc.) Incorrect handling and poor transport conditions may damage the device.

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Introduction

Information on user manual

Dear Customer,

Thank you for purchasing this product. This device is built with state-of-the-art technology.

These instructions contain important installation and operation information. Follow the directions and instructions in this manual to ensure safe operation. Store this manual in a safe place for future reference. This manual constitutes part of the device. If you pass the device on to third parties, please remember to include this manual.

Intended use

Only use the device for the purpose for which it was built and designed. Any other use is considered unintended.

This product complies with current domestic and European regulations. Conformity has been proven, and all related certifications are available from the manufacturer on request.

To ensure this condition is maintained and that safe operation is guaranteed, it is your obligation to observe this user manual. If you have any questions, please contact your specialist dealer. Further general information and information on product support can be found at www.abus.com on the general page or for dealers and installers, in the Partner portal.

Limitation of liability

Everything possible has been done to ensure that the content of these instructions is correct. However, neither the author nor ABUS Security-Center GmbH & Co. KG can be held liable for loss or damage caused by incorrect or improper installation and operation or failure to observe the safety instructions and warnings. No liability can be accepted for resulting damage. No part of the product may be changed or modified in any way. If you do not follow these instructions, your warranty claim becomes invalid.

Subject to technical modifications.

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Safety information

Explanation of symbols

The following symbols are used in this manual and on the device:

Symbol	Signal word	Meaning
	Danger	Indicates a risk of injury or health hazards.
	Danger	Indicates a risk of injury or health hazards caused by electrical voltage.
	Important	Indicates possible damage to the device/accessories.
	Note	Indicates important information.
		The EU Directive WEEE 2012/19/EC governs the proper recovery, 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 lifespan in accordance with applicable local legal guidelines. Used devices can be disposed of at official recycling centres in your country. Obey local regulations when disposing of material. Further details on returns (also for non-EU countries) can be obtained from your local authority. Separate collection and recycling conserve natural resources and ensure that all the provisions for protecting health and the environment are observed when recycling the product.

Packaging

 Danger	Keep packaging material and small parts away from children. There is a risk of suffocation.
	Remove all packaging material before using the device.

General information

The AZWG10200-PSTN/IP converter is an IP/GPRS transmission device with two transmission paths. The transmission device has an LAV interface that is suitable for open and closed networks and a GPRS module for transmitting to the GSM network. Depending on the version, the notifications can be imported from the analogue alarm system either via the signal lines or via the converter.

Power supply

The AZWG10200-PSTN/IP CONVERTER is suitable for supply voltages from 10 to 28 V DC. It uses 70 mA when idle at 12 V DC, 85 mA when communicating via LAN and 170 mA when communicating via GPRS.

Hardware modules

IP Ethernet (LAN)

The RJ45 Ethernet port on the AZWG10200-PSTN/IP CONVERTER supports speeds of both 10 Mb/s and 100 Mb/s. The CONVERTER adapts to the network, with 10 Mb the preferred speed because less power is consumed. Transmissions can be sent in TCP and UDP.

IP/GPRS (GSM)

The GPRS module can send IP transmission in TCP and UDP. The registration on the network, the signal strength and IP availability are constantly checked. The status can be reported to the monitoring station via Ethernet. The ICCID number of the SIM card can be sent to the monitoring stations with each test notification, so the card can always be tracked. The antenna can be connected via an integrated SMA connector.

A/B converter

The AZWG10200-PSTN/IP CONVERTER is equipped with an A/B converter for analogue SIA, Contact ID and Telim alarm systems in order to link them easily to the modern IP networks and monitoring stations. The CONVERTER reads the alarm notifications with Telim, Contact ID or SIA, including text, from the alarm system, saves them, converts them according to the DC-09 IP protocol and then checks and sends them to the monitoring station. The analogue Telim protocol can be converted to VdS 2465 IP and SIA DC-09. All other protocols are converted from analogue to the same digital protocol, i.e. SIA analogue is converted to the digital SIA DC-09 protocol and CID analogue to the digital CID DC-09 protocol.

Alarm transmission

The AZWG10200-PSTN/IP CONVERTER sends the notifications in VdS 2465, Contact ID DC-09 and SIA DC-09 protocols as needed. VdS 2465 and SIA DC-09 also support text. The DC-09 protocol is an open, standardised protocol that is supported by many surveillance services around the world. Depending on use, transmissions can be encrypted with an AES 128, AES 192 or AES 256 key. VdS 2465 supports encryption with AES 128.

EN-compliant transmission

The EN 50136-1:2012 standard defines ten transmission methods, six single transmission paths (SP) and four redundant double transmission paths (DP). The transmission methods are adjusted according to the different risk classes and concern the monitoring of the connection, transmission speed, connection availability and transmission protection. The AZWG10200-PSTN/IP CONVERTER can be set for all methods and is tested according to the highest SP and DP versions through EN certification.

Redundant transmission

For redundant transmissions, the LAN connection is usually set as the primary path and the GPRS module as the redundant path. The GPRS module can also be set as the primary path in the AZWG10200-PSTN/IP CONVERTER. If the primary path experiences a fault, the redundant path automatically takes over the monitoring times of the primary path. The most commonly used versions are listed below.

- DP-1 (comparable to class A/B)
 - LAN: a test notification is sent from the alarm system via the A/B converter every 24 hours
 - GSM: a test notification is sent from the AZWG10200-PSTN/IP CONVERTER every 24 hours

- DP-3 (comparable to class C)
 - LAN: an SIA poll notification is sent every 60 seconds (monitoring 180 seconds)
 - GSM: an SIA poll notification is sent every hour (monitoring 25 hours)
 - If the primary path experiences a fault, the redundant path automatically takes over the monitoring times of the primary path and a poll notification is transmitted every 60 seconds

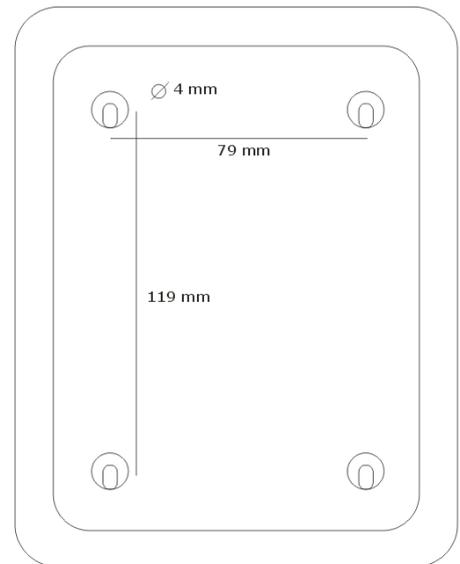
The receiver at the monitoring station monitors the poll notifications and reports the status and failure.

Installation and connection

The AZWG10200-PSTN/IP CONVERTER is connected to the analogue telephone connection of the alarm system and/or the alarm lines. The connections comprise the power supply, Ethernet, GSM antenna (optional), converter (optional) and/or signal lines, the relay outputs and the tamper contact of the AZWG10200-PSTN/IP CONVERTER.

Installation

The AZWG10200-PSTN/IP CONVERTER comes in a plastic housing. Open the housing by loosening the screw on the bottom and then lifting the cover. There are four installation holes on the back of the housing, which can be accessed as soon as the printed circuit board (PCB) has been unscrewed. There are openings on the left and right of the back wall for cable entries. Observe ESD (electronic static discharge) requirements when coming into contact with the PCB.

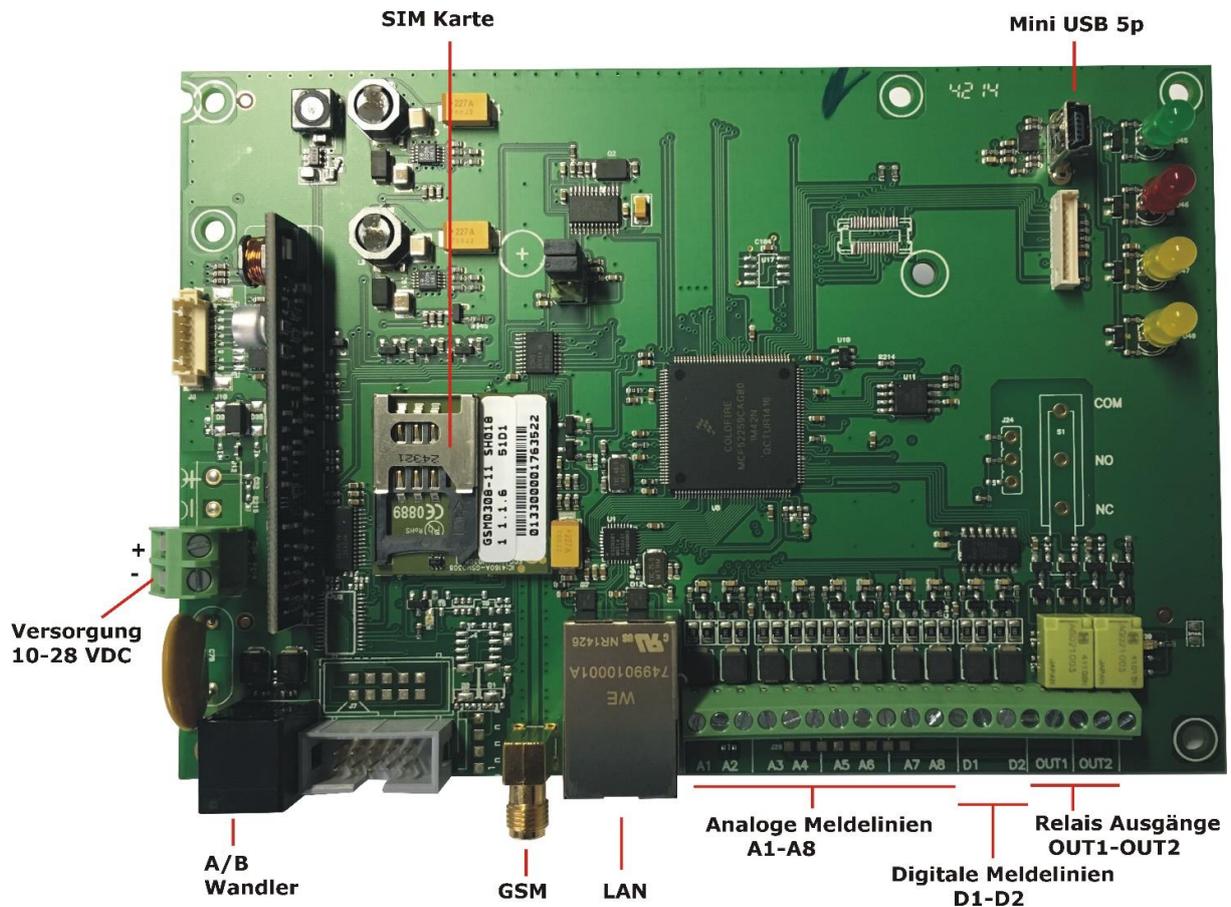


Motherboard connections

Ethernet: standard RJ45 CAT5-E connection. Plug the supplied RJ45 cable into the Ethernet port on the AZWG10200-PSTN/IP CONVERTER and connect it to the DSL modem/router. An internet connection must be available on the modem/router.

GSM antenna: connect the supplied adhesive-mounted antenna to the SMA GSM antenna connection on the AZWG10200-PSTN/IP CONVERTER. The real-time display of the signal strength in the Param-It+ software allows for the antenna position to be optimised.

10 to 28 V DC supply: the supply can be taken from the danger alarm system. A DC voltage from 10 to 28 V DC is required.



Signal lines

The motherboard is equipped with eight monitored lines (inputs). These inputs can be adjusted per line and used as NO (normally open) or NC (normally closed) contacts. They are monitored with a resistance of 10 K or with two resistances of 8 K/15 K (8 K2 idle, 23 K2 when there is an alarm; zero and open lead to tampering/fault). Separate settings are provided for connection to Siemens or Bosch fire alarm systems.

Plugs:

L1 C L2 L3 C L4 L5 C L6 L7 C L8

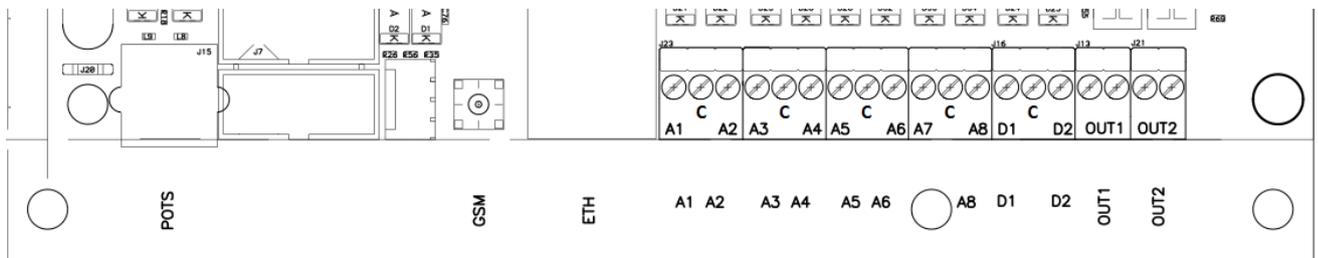
Lx = monitored line (zone)

C = common

D1 = digital line (zone) 1

C = common

D2 = digital line (zone) 2



Outputs

The two relay outputs are marked with OUT1 and OUT2.

OUT1 NO transmission error if an alarm notification is not accepted within three attempts

OUT2 NC fault with LAN, GPRS communication, supply, start (booting)

OUT1 is active when there is a transmission error. The reset occurs after a notification is acknowledged. OUT2 can be configured for each connection path.

USB

The USB port has a 5-pin USB mini connection, which is used for programming, firmware updates and diagnostics.

Converter connection (POTS)

The PSTN converter with the RJ11 port provides the option of connecting an analogue alarm system with SIA, Contact ID or Telim. The converter is supplied with a line voltage of 40 V for the dialling tone, Telim, SIA and Contact ID as well as for evaluation and conversion to VdS 2465 IP or DC-09 IP transmission protocols. The telephone number and ID number must be set in the alarm system; see chapter 'Param-It+ programming'.

SIM card

The SIM card must support GPRS (2G) IP data transmission. For redundant use, 1 MB per month is sufficient. The AZWG10200-PSTN/IP CONVERTER supports multi-roaming SIM cards.

LED displays

The AZWG10200-PSTN/IP CONVERTER has the following LEDs:



Green

Continuously illuminated: supply OK, device is ready for operation

FLASHING fast: device is starting (booting)

FLASHING slow: tampering on the signal line/extension or fault with power supply



Red

Continuously illuminated: transmission active

FLASHING fast: 10 second notification acknowledged by receiver

FLASHING slow: dialler repetition



Yellow L (1)

Continuously illuminated: converter active



Yellow R (2)

FLASHING briefly ON – long OFF: Ethernet/LAN fault

FLASHING long ON – briefly OFF: GPRS/GSM fault

Continuously illuminated: Ethernet/LAN and GPRS/GSM fault

Programming with ParamIt+

All parameters for the AZWG10200-PSTN/IP CONVERTER can be configured using the [ParamIt+](#) software. [ParamIt+](#) is the software for programming and troubleshooting the AZWG10200-PSTN/IP CONVERTER and updating its firmware, both directly via USB connection and via remote configuration.

Install ParamIt+ and start it by double-clicking the icon. The software is available on the ABUS homepage.



If no users have been created yet, ParamIt+ starts with a standard login screen.

ABUS Security-Center GmbH & Co. KG EinloggenParamIt+ 1.7.6.6

Name
User1

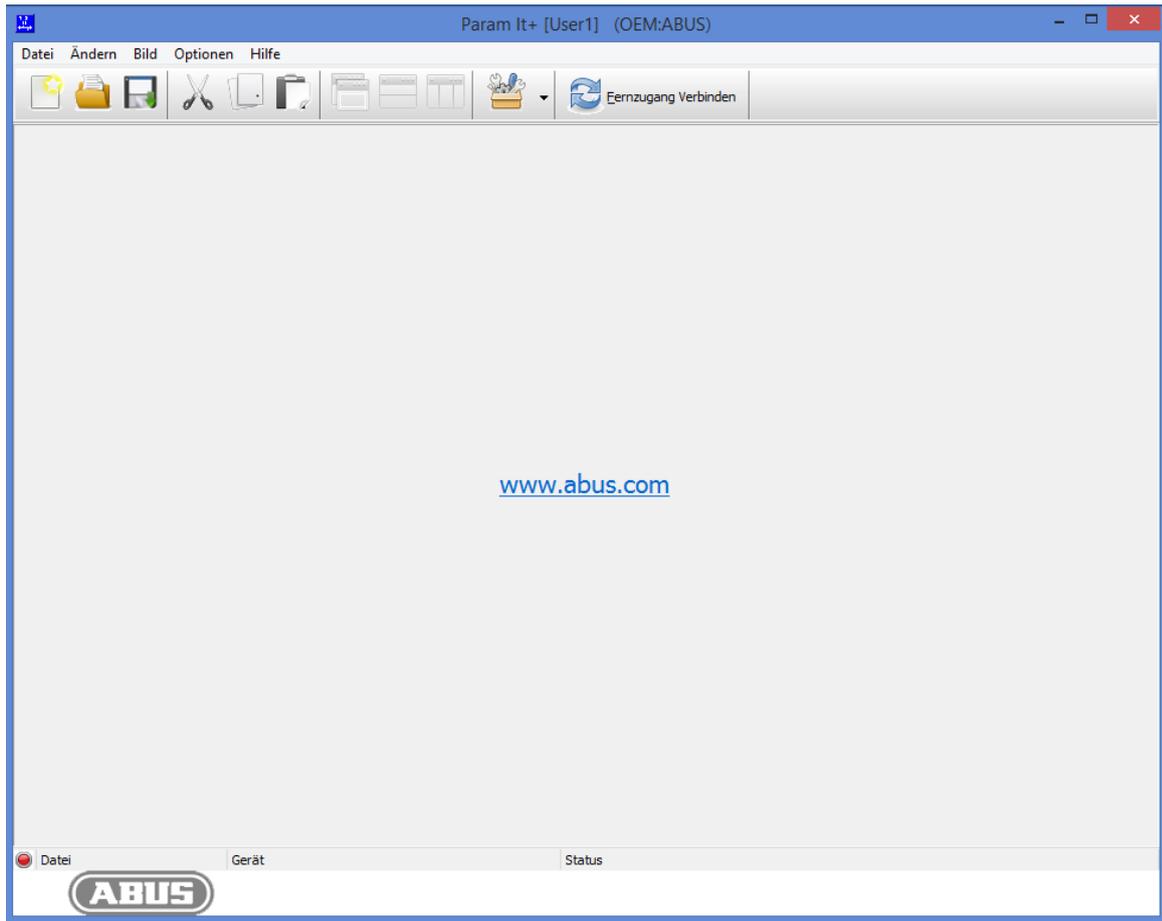
Kennwort

Zeige Kennwort

OK

Abbrechen

Press 'OK' or 'Enter' to continue to the start page.



Connecting the AZWG10200-PSTN/IP CONVERTER

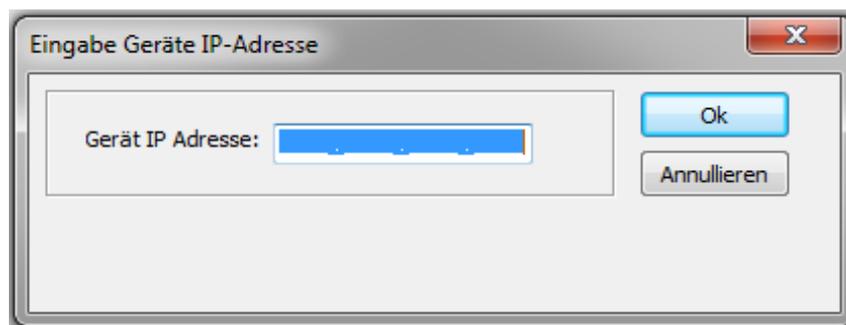
Port forwarding

Some administrative information can be stored under premises data. The IP address and port can be entered for remote access to the AZWG10200-PSTN/IP CONVERTER. Port 64001 is used by default for remote access. The port number can be changed under Options > Settings > Remote access/upgrade.

Check whether the AZWG10200-PSTN/IP CONVERTER is supplied with power and connect the device to the computer/laptop via the mini USB cable or use the 'Remote access' option to connect.



The external IP address can be entered for remote access to the AZWG10200-PSTN/IP CONVERTER.



Remote access progress is displayed on the right-hand side:



ParamIt+ automatically detects the AZWG10200-PSTN/IP CONVERTER and opens the start screen. The product information is displayed along with the firmware version. The status of the USB or remote connection is indicated at the bottom left of the screen with a green icon.

AZWG10200 PSTN/IP Konverter_1.tsd*

Senden Empfangen Fernzugang beenden Info Alarmart Tabelle

Übersicht Module Übertragung Verschlüsselung Meldungen Ausgänge Diagnose Upgrade

Device info

Features:
Name: AZWG10200 PSTN/IP Konverter, (0
Customer: Abus Security-Center GmbH &Co.
Build date: Feb 1 2017 15:24:47
Config: 000100A5
Parameter: 9015
Product: 11D rev.:3
Desc: Standard unit
Description: Ethernet/GPRS overdrager
AZWG10200 PSTN/IP Konverter
Board: 00000103

Objektdaten:

Installationsdatum: donderdag 2 februari 2017
Objektname:
Adresse:
Ort:
PLZ: Rufnummer:
Referenz:
E-Mail:
Gerät IP Adresse: 010.000.000.013 Port: 64001
Identnummer:
Kommentare:

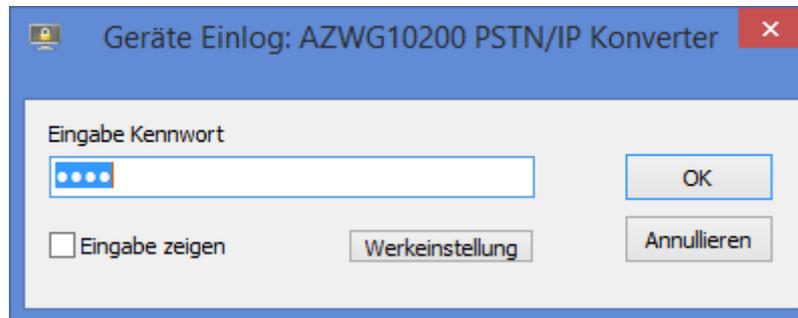
Kennwort benötigt

Kennwort konfigurieren

Benötigt bei USB Verbindung

AZWG10200-PSTN/IP CONVERTER password

If password protection is enabled on the AZWG10200-PSTN/IP CONVERTER, the login window opens:



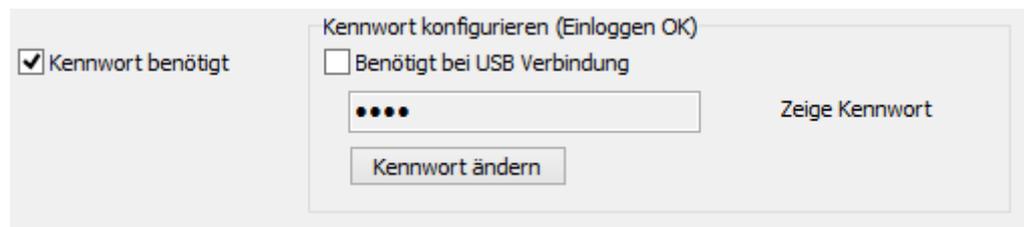
If you do not know the password, the device can be reset using the 'Factory setting' key. **ATTENTION! All programming data will be deleted when this key is pressed!**

Separate passwords can be assigned for remote access and the USB (on-site) connection.

Password required: password required for remote access

Required for USB connection: password also required for connection via USB

A new password can be entered by selecting 'Change password'. The new password is only active once it has been transmitted from the PC to the AZWG10200-PSTN/IP CONVERTER by pressing the 'Send' key.



Loading a configuration

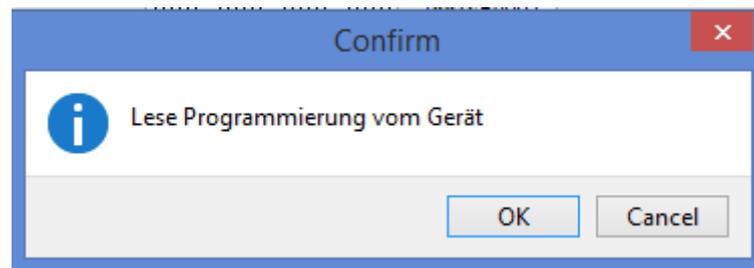
Configurations saved on the computer/laptop can easily be loaded. Press the folder icon at the top left:



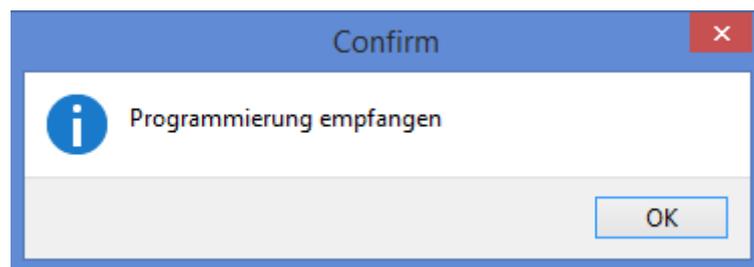
A new window opens with the saved files. Select the desired file and press 'Open'. The file is then loaded.

Importing a configuration from the AZWG10200-PSTN/IP CONVERTER

The configuration saved on the AZWG10200-PSTN/IP CONVERTER can easily be imported using the 'Receive' key.



Press OK.



Press OK again to confirm.

Saving a configuration on the PC/laptop

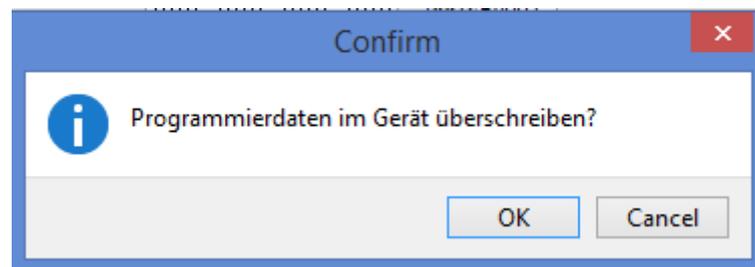
The newly created or changed programming can be saved by pressing the key with the diskette icon on it. A new window opens. Enter a file name and press 'Save'.



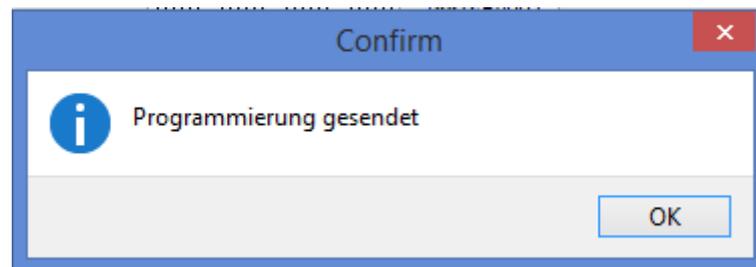
The files are saved to the following destination by default: \\My Documents\\ParamIt+\\Parameters. The save location can be changed in the save menu. Subfolders can also be created.

Saving a configuration on the AZWG10200-PSTN/IP CONVERTER

The newly created or changed programming can be saved on the AZWG10200-PSTN/IP CONVERTER by pressing the Send key.



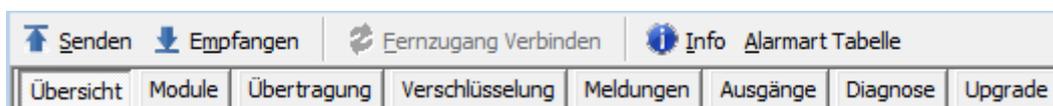
Press OK.



Press OK.

Changing a configuration

The configuration of the AZWG10200-PSTN/IP CONVERTER is ideally changed [by working through the tabs from left to right](#). Many settings are configured by default.



'Modules' tab

The settings for the GSM, Ethernet (LAN), converter and time server hardware modules are configured in the 'Modules' tab.

The screenshot shows the 'Modules' tab configuration interface with the following settings:

- GSM Modul:**
 - Ein
 - GPRS
 - GPRS Registrierung:
 - Benutzernahme:
 - Kennwort:
 - PIN Kode: PIN Kode aktivieren
- Ethernet Modul:**
 - Ein
 - IP Adresse automatisch beziehen (DHCP)
 - Ethernet LAN:
 - Eigene IP:
 - Gateway:
 - Netzmaske:
 - Smart IP Konfiguration aktiv
- Wandler Modul:**
 - Ein
 - Alarmanlage Übertragung: Ein
 - Protokoll:
 - Fernzugang zur Alarmanlage:
 - Ausgehend Server:
 - Eingehend Port:
 - Verbindung:
 - Alarmanlage:
- Zeitserver NTP:**
 - NTP Server 1:
 - NTP Server 2:

GSM module

- ON GSM module enabled for transmission
- GPRS enabled for IP transmission
 - APN: provider access point
 - User name: GPRS (2G) provider login
 - Password: GPRS (2G) provider login
 - PIN code: used if there is a PIN on the SIM card

Ethernet/LAN module

The Ethernet module is the LAN port on the PCB and allows for transmission via Ethernet.

- ON Ethernet/LAN module enabled for transmission and remote access
- Obtain IP address automatically (DHCP)
 - If this option is ticked, the AZWG10200-PSTN/IP CONVERTER automatically obtains the network settings via DHCP
- Ethernet/LAN
 - Enter the desired data for a fixed IP address, gateway and subnet mask. (If these fields are greyed out, the tick mark for 'Obtain IP address automatically (DHCP)' must be removed.)
- Smart IP configuration active
 - If DHCP is not enabled, the 'Smart IP configuration active' option can be ticked. Then if the entered data

does not work or stops working and no connection can be established, the data can be obtained via DHCP after several failed attempts to connect using the entered data.

Time server

- The AZWG10200-PSTN/IP CONVERTER uses the NTP time server to synchronise the time automatically. With the VdS 2465 and DC-09 protocols, the time is transmitted for each notification for EN 50136 'Verification of Performance' (VoP). In the case of public internet connections, the public addresses of the time server should be entered here (e.g. ntp.pool.org or NTP Deutsche Telekom AG: 195.145.119.188). If the AZWG10200-PSTN/IP CONVERTER is used in a closed network (VPN), the addresses of the VPN time server must be entered. If no time server is available, the device does not transmit the time with notifications. The AZWG10200-PSTN/IP CONVERTER synchronises the time every hour via Ethernet or GSM.

Converter module

The converter module reads the Telim, SIA and Contact ID notifications from the alarm system.

- ON ✓ Converter enabled
 ✓ ON alarm system transmission
- Selection for Telim, SIA or Contact ID alarm systems. The level is automatically evaluated for SIA. Program 901 as the first call number in the alarm system in order to enable transmission through the AZWG10200-PSTN/IP CONVERTER.

'Transmission' tab

The communication options, the data of the IP receiver at the monitoring station and the notification order are set in the 'Transmission' tab. The AZWG10200-PSTN/IP CONVERTER provides a free choice between using the primary path or opting for redundant transmission. Up to eight different combinations of communication and receiver options can be set.

Übersicht	Module	Übertragung	Verschlüsselung	Meldungen	Ausgänge	Diagnose	Upgrade			
Ziele	Modul	Zielart	Adresse	Port	Richtung	Alarmprotokoll	Identnr.			
1	Ethernet, TCP	IP address	087.164.210.140	12310	Outgoing	VdS 2465 Bed. Verschl.	123456			
2	GSM, GPRS TCP	IP address	087.164.210.140	12320	Outgoing	VdS 2465 Bedarfsgst.	654321			
3										
4										
5										
6										
7										
8										
Reihenfolge	Ziel 1	Ziel 2	Ziel 3	Ziel 4	Ziel 5	Ziel 6	Ziel 7	Ziel 8	Alle senden	
1	1	2								
2	1									
3	2									
4										
5										
6										
7										
8										

The settings consist of:

- Module, communication via AZWG10200-PSTN/IP CONVERTER:

-
- Ethernet UDP or TCP. The choice of UDP or TCP should match the setting of the monitoring station receiver.
 - GPRS UDP or TCP. The choice of UDP or TCP should match the setting of the monitoring station receiver.
 - Target type: transmission method. Currently only IP address is possible.
 - Address: IP address of the monitoring station receiver.
 - Port: port number of the monitoring station receiver. The monitoring station often differentiates between the primary path and redundant path using the port numbers.
 - Direction: set to 'Outgoing'.
 - Alarm protocol:
 - SIA DC3, first generation SIA IP transmission. DC3 and UDP can only be combined if there is a fixed IP address for the premises.
 - SIA DC9, second generation SIA IP transmission including text.
 - SIA DC9 Encrypt: the DC9 notification is encrypted via AES. The encryption method can be set in the 'Encryption' tab. The encryption should also be set on the monitoring station receiver in order to ensure problem-free receipt of the data.
 - SIA DC-09 A.ASCII: SIA DC-09 variant, compatible with receivers from Azur (Osiris) and ESI (F1). These are mostly used in France and Belgium.
 - SIA DC-09 A.Encrypt: SIA DC-09 variant with encryption compatible with receivers from Azur (Osiris) and ESI (F1). These are mostly used in France and Belgium. The encryption method can be set in the 'Encryption' tab. The encryption should also be set on the monitoring station receiver in order to ensure problem-free receipt of the data.
 - CID DC-09: second generation IP transmission in Contact ID DC-09 structure.
 - CID DC9 Encrypt: second generation IP transmission with encryption in Contact ID DC-09 structure. The encryption method can be set in the 'Encryption' tab. The encryption should also be set on the monitoring station receiver in order to ensure problem-free receipt of the data.
 - VdS 2465 needs-based: IP transmission in VdS 2465 structure including text as needs-based connection.
 - VdS 2465 needs-based encrypt.: IP transmission in VdS 2465 structure including text with encryption as needs-based connection. The VdS 2465 notification is given an AES 128 key and key number when sent. The key and key number should also be set on the monitoring station receiver in order to ensure problem-free receipt of the data.
 - ID no.: the identification number for the notification to the monitoring station must have no less than four and no more than eight digits. Set the same ID number in the alarm system.

Sequence:

The sequence determines the order of the notifications. The notifications from the danger alarm system are sent via the PSTN converter in sequence 1. This is normally first the primary path and then the redundant path. The test, dialler and AZWG10200-PSTN/IP CONVERTER notifications can be set up using the setting sequence for a receiver.

- Sequence 1 ...: call order 1 etc.
 - Target 1 ...: connection selection via menu

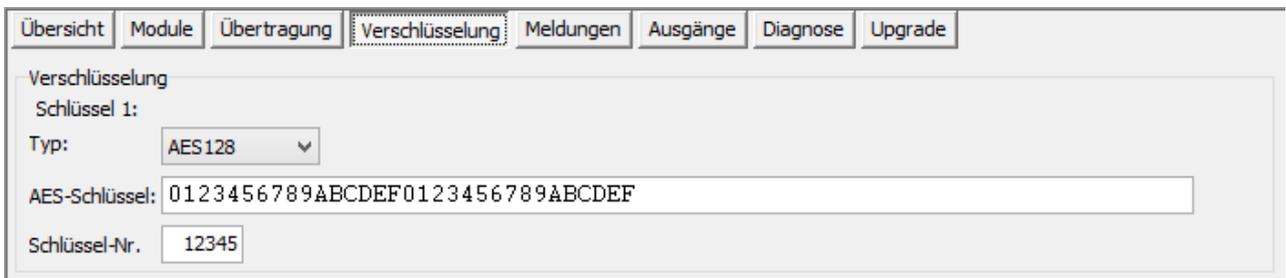
Test notifications from a specific transmission path should only be set for the target.

'Encryption' tab

The AZWG10200-PSTN/IP CONVERTER provides the option of encrypting notifications. The sent data is encrypted and sent on the IP network so that they cannot be intercepted and analysed. An AES key is stored in the device for this purpose. The characters are introduced in hexadecimal and consist of numbers from 0 to 9 and letters from A to F. There are three different degrees of encryption on the AZWG10200-PSTN/IP CONVERTER.

- AES 128 encryption using 32 characters (always use AES 128 with VdS protocol)
- AES 192 encryption using 48 characters
- AES 256 encryption using 64 characters

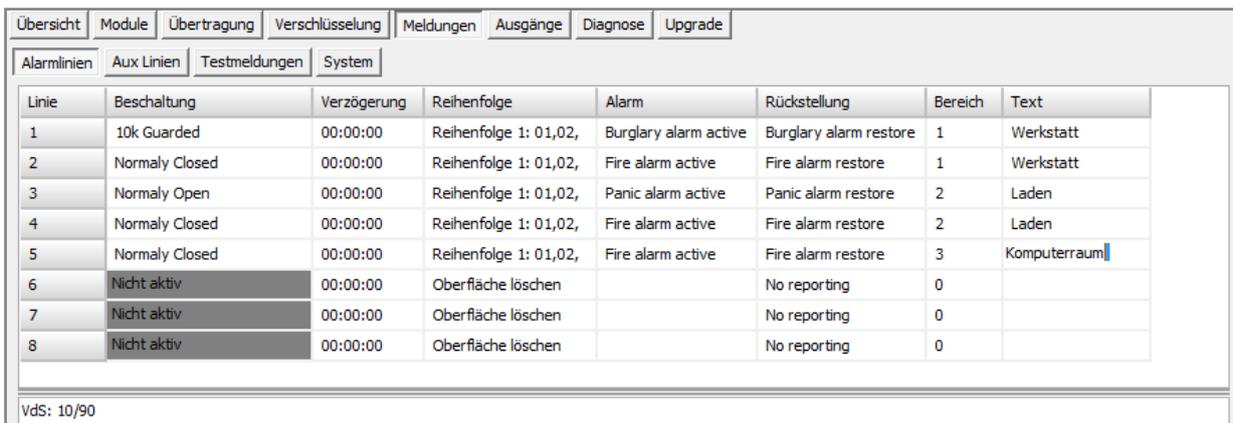
Set the same AES encryption on the monitoring station receiver in order to decrypt the notifications upon their receipt. Coordinate this with the monitoring station. Select alarm protocol VdS 2465 or DC-09 with encryption as the transmission protocol in the 'Transmission' tab.



The key number is only used with the VdS 2465 protocol. The number is limited to five digits and must not be zero.

'Notifications' tab

There are four sub-categories in the 'Notifications' tab.



Linie	Beschaltung	Verzögerung	Reihenfolge	Alarm	Rückstellung	Bereich	Text
1	10k Guarded	00:00:00	Reihenfolge 1: 01,02	Burglary alarm active	Burglary alarm restore	1	Werkstatt
2	Normally Closed	00:00:00	Reihenfolge 1: 01,02	Fire alarm active	Fire alarm restore	1	Werkstatt
3	Normally Open	00:00:00	Reihenfolge 1: 01,02	Panic alarm active	Panic alarm restore	2	Laden
4	Normally Closed	00:00:00	Reihenfolge 1: 01,02	Fire alarm active	Fire alarm restore	2	Laden
5	Normally Closed	00:00:00	Reihenfolge 1: 01,02	Fire alarm active	Fire alarm restore	3	Computerraum
6	Nicht aktiv	00:00:00	Oberfläche löschen		No reporting	0	
7	Nicht aktiv	00:00:00	Oberfläche löschen		No reporting	0	
8	Nicht aktiv	00:00:00	Oberfläche löschen		No reporting	0	

VdS: 10/90

Alarm lines (eight monitored analogue inputs)

The AZWG10200-PSTN/IP CONVERTER has eight analogue inputs that are freely configurable for EN 54-21 fire and fault notifications or multiple breaking and entering and technical notifications. The following settings can be configured for each input:

- wiring, input type; the following options are available for this:
 - Not active: input is switched off
 - Normally Open: input is normally open, operating current (NO)
 - Normally Closed: input is normally closed, standby current (NC)
 - 10K monitored: input is monitored via 10K Ω in normal state
 - Double resistance monitored: monitored with double resistance; 8K2 in normal state, 23K2 in alarm state, opened or short-circuited in the event of tampering
 - Siemens FAC N.O.: configuration for normally open contact of a Siemens fire alarm system
 - Siemens FAC N.C.: configuration for normally closed contact of a Siemens fire alarm system
 - Bosch FAC N.C. fire: configuration for normally closed contact of a BOSCH fire alarm system and fire notification
 - Bosch FAC N.C. error: configuration for normally closed contact of a BOSCH fire alarm system and error notification.
- Delay in hours, minutes and seconds: if the input resets back to normal state within the set delay time, no notification is issued.
- Sequence: notifications are handled/processed as per the sequence set in the 'Transmission' tab.
- Alarm: as soon as the input is enabled.
- Reset: as soon as the input is reset to normal state. If 'No reporting' is set, this notification is not sent.
- Area: notification partition.
- Text: free text field with 16 characters. This text is sent when the inputs go into 'Alarm' and 'Reset' states. Use only characters A to Z, 0 to 9 and do not use bookmarks or international characters.

The selected protocol coding for the line notification is displayed in the window below.

AUX lines (two digital inputs, high/low)

The two digital inputs of the AZWG10200-PSTN/IP CONVERTER can be used for the tamper contact, for example.

Übersicht	Module	Übertragung	Verschlüsselung	Meldungen	Ausgänge	Diagnose	Upgrade
Alarmlinien	Aux Linien	Testmeldungen	System				
Linie	Beschaltung	Verzögerung	Reihenfolge	Alarm	Rückstellung	Bereich	Text
1	Normally Closed	00:00:00	Reihenfolge 1: 01,02,	Tamper alarm active	Tamper alarm restore	0	Deckelschalter
2	Normally Open	00:00:00	Reihenfolge 1: 01,02,	Start Up/Download panel	No reporting	0	

VdS: 23/A3

- wiring, input type; the following options are available in the menu:
 - Not active: input is switched off
 - Normally Open: input is normally open, operating current (NO)
 - Normally Closed: input is normally closed, standby current (NC)
- Delay in hours, minutes and seconds. If the input resets back to normal state within the set delay time, no notification is issued.
- Sequence: notifications are sent as per the sequence set in the 'Notifications' tab. There is a special sequence in the upload/download menu for enabling the upload/download connection.
- Alarm: as soon as the input is enabled. There is a special sequence under 'Start up/download panel' for enabling the upload/download connection.
- Reset: as soon as the input is reset to normal state. If 'NO' is selected, this notification is not sent.
- Area: sub-area of the notification.
- Text: free text field with 16 characters. This text is sent when the inputs go into 'Alarm' and 'Reset' states. Use only characters A to Z, 0 to 9 and do not use bookmarks or international characters.

Test notifications (test and poll notifications)

The AZWG10200-PSTN/IP CONVERTER has eight internal timers that are used to monitor the connection paths via automatic test, poll and interval-based notifications. The timers are easy to configure using pre-settings in line with the EN risk classes. Poll notifications are used when the interval is short. These are monitored by the monitoring station receiver. Poll notifications are used in the DP classes. Timer 1 is the primary poll and timer 2 is the redundant poll in this case. If the primary path fails, timer 2 takes over the interval from timer 1. When the primary path is restored, timer 2 is reset. Test notifications are used for classes SP-1 and SP-2. A test notification is monitored by the monitoring station software rather than the receiver. The AZWG10200-PSTN/IP CONVERTER sends the test notification as a VdS, Contact ID or SIA RP, TX, RX report. When an RX report is sent and there is a GPRS connection, the ICCID number of the SIM card and the current provider can also be sent.

Linie	Zeiteinstellung	Intervall	Reihenfolge	Meldung	Funktion	Texte
Timer 1	Poll	00:01:20	Reihenfolge 2: 01,	Poll	No function	
Timer 2	Poll	10:00:00	Reihenfolge 3: 02,	Poll	No function	
Timer 3	Aktiv	Täglich	Reihenfolge 2: 01,	VdS Test report	No function	
Timer 4	Aktiv	Zeit	Reihenfolge 1: 01,02,	Timed function	Analog input 4	
Timer 5	Nicht aktiv	00:00:00	Leer		No function	
Timer 6	Nicht aktiv	00:00:00	Leer		No function	
Timer 7	Nicht aktiv	00:00:00	Leer		No function	
Timer 8	Nicht aktiv	00:00:00	Leer		No function	

VdS: <?>/

Freie Eingabe Testzeiten
Pollzeiten (Timer 1/2)

EN Risikoklasse

DP3 (Dual Path 80 seconds-10hours) ▼

Erweiterte Timer Einstellungen

Zeit Täglich Wöchentlich Monatlich

Stunden Minuten

Intervall 0 10

Jede xx:00:xx Minuten

Anwenden

Selektierte Timer4

System Datum/Uhrzeit

20-1-2017 13:32:55

Nächster Timer Meldung am:

20-1-2017 13:42:00

- Time setting, enabling of timer via menu selection:
 - Not active: timer is disabled
 - Active: timer is enabled; can be set via the 'Advanced timer settings' menu
 - Poll: poll notifications are enabled; can be set via the 'Poll times' menu
- Interval, time interval in hours, minutes and seconds. The poll interval time is automatically set when an EN risk class is selected and given a green background. When a timer is enabled (no poll), the desired interval must be set in the 'Advanced timer settings' menu.
- Sequence: notifications are processed as per the sequence set in the 'Transmission' tab.
- Notification, selection of poll, test and interval notifications:

- VdS Test report: selection for needs-based test notification with VdS 2465 protocol.
- Automatic test: standard SIA RP automatic test notification.
- Manual test: SIA RX test notification with the option of transmitting the SIM ICCID number of the SIM card in the text field of each test notification; %\$01 must be entered in the text field for this purpose.
- No reporting: no transmission.
- Poll: setting for poll test notifications. Select 'Manual' (specific timer setting) for EN risk class.
- Timed function: setting for interval when measuring analogue values such as temperature. The desired interval must be set in the 'Advanced timer settings' menu.
- Function: for 'Timed function' only; select the line that needs to transmit a current measured value after the interval.
- Text: free text field with max. 16 characters. This text is sent with each test or poll notification. Only use if required, because this option leads to excessive data amounts.

Advanced timer settings

The desired interval must be set here if a timer is enabled. An interval can be set to daily, weekly or monthly via four tabs. Press 'Use per timer' to apply the setting. [The current AZWG10200-PSTN/IP CONVERTER, system, date/time and the next test notification are displayed on the right-hand side.]

AZWG10200-PSTN/IP CONVERTER system

The system and transmission notifications can be set in this tab. The cover switch is not used for the AZWG10200-PSTN/IP CONVERTER PCB.

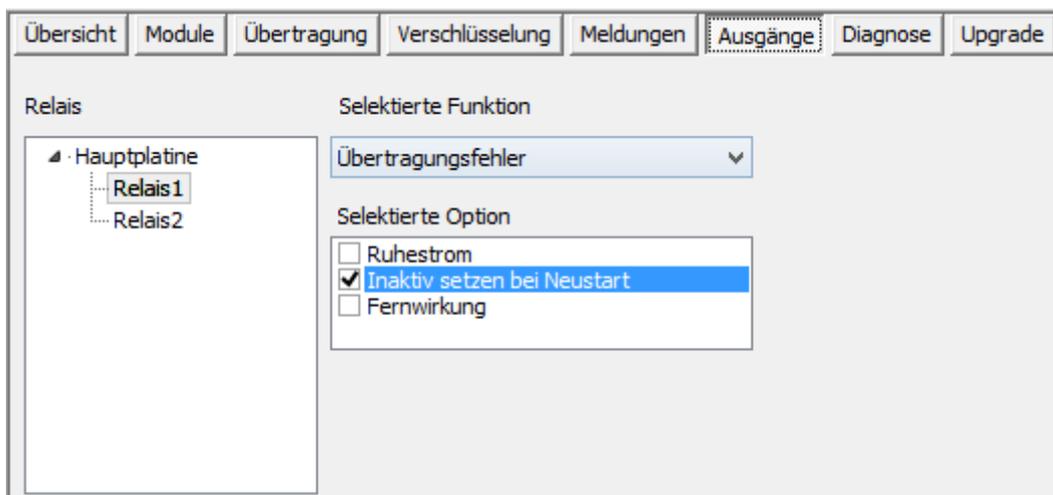
Übersicht	Module	Übertragung	Verschlüsselung	Meldungen	Ausgänge	Diagnose	Upgrade
Alarmlinien	Aux Linien	Testmeldungen	System				
Linie	Überwachung	Verzögerung	Reihenfolge	Alarm	Rückstellung	Bereich	Text
Deckel Schalter:	Nicht aktiv	00:00:00	Oberfläche löschen			0	
GSM IP:	Aktiv	00:02:00	Reihenfolge 2: 01,	GSM IP fail	GSM IP ok	0	GSM Vorort
Ethernet IP:	Aktiv	00:00:20	Reihenfolge 3: 02,	Eth. IP fail	Eth. IP ok	0	LAN Vorort
VdS: 34/B4							
System Einstellung							
Bereich überbrücken <input type="text" value="255"/>							

- Line:
 - Cover switch: not used
 - GSM IP; the locally monitored GSM/GPRS network consists of:

- PIN code error
 - GSM login error
 - GPRS IP address not received
 - Signal strength too low; login failed
- ETH IP; the locally monitored Ethernet consists of:
 - Physical connection with LAN disrupted
 - Ethernet error (MAC address, ARP)
 - IP address not received
- Monitoring, system notification enabled; the following options are available in the menu:
 - Not active: system notification disabled
 - Active: system notification enabled
- Delay, interval in hours, minutes and seconds: if the system notification resets back to normal state within the set delay time, no notification is issued.
- Sequence: notifications are processed as per the sequence set in the 'Transmission' tab. **Note:** a failed Ethernet connection cannot be reported via an Ethernet connection.
- Alarm, fixed error coding:
 - TA0001 Tamper alarm active
 - YS0009 GSM IP fail
 - YS0013 Ethernet IP fail
- Reset, reset notification with fixed coding:
 - TR0001 Tamper alarm restore
 - YK0009 GSM IP OK
 - YK0013 Ethernet IP OK
- Area: notification partition.
- Text: free text field with 16 characters. This text is sent when the inputs go into 'Alarm' and 'Reset' states. Use only characters A to Z, 0 to 9 and do not use bookmarks or international characters.
- **System setting:**
 - Bypass area: the AZWG10200-PSTN/IP CONVERTER provides the option of blocking notifications from this area.

Outputs

The AZWG10200-PSTN/IP CONVERTER is equipped with two relay outputs.



The motherboard has two relays:

OUT1/relay 1

OUT2/relay 2

The relay settings can be configured in this tab.

Relay 1 is mostly used for transmission errors. If the AZWG10200-PSTN/IP CONVERTER has still not received any acknowledgement after the third transmission attempt, this relay is enabled. As soon as an acknowledgement is received, the relay is reset.

Relay 2 must be set for EN 54-21 applications in accordance with VdS regulations. This relay is enabled if an error occurs with the supply, the transmission paths, during programming or with the processor. Once the error is reset, the relay is also reset. Select the 'Standby current for EN 54-21/VdS applications' option.

Attention: Once the AZWG10200-PSTN/IP CONVERTER has received new data via the 'Send' key, the converter is automatically restarted and the current status of all active notifications is sent. During startup the green LED flashes for approx. one minute and the left of the two yellow LEDs flashes approx. two minutes, until all connection paths are active and the server receives the correct time.

Diagnosis

There are four sub-tabs in the 'Diagnosis' tab:

- Modules: status of GSM, Ethernet, supply, converter and time
- Alarm lines: status of all inputs
- Outputs: status of all relays
- System: event log (log book)

Diagnosis > Modules

Module | Alarmlinien | Ausgänge | System

GSM:EIN/SIM gesteckt

Ein	PIN	Reg	GPRS	Empf.
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

53%

Version:

Eigene IP:

IMEI:

ICCID:

Nummer:

Provider:

Verbrauch	Vers.(Bytes)	Empf.(Bytes)
Heute:	<input type="text" value="84"/>	<input type="text" value="56"/>
Gestern:	<input type="text" value="0"/>	<input type="text" value="0"/>

Uhr

System Datum / Uhrzeit:

Ethernet LAN

Ein	LAN	ETH	IP	DHCP
<input checked="" type="checkbox"/>				

Eigene IP:

DNS1:

DNS2:

Gateway:

Netzmaske:

DHCP Server:

MAC:

Netz (ver.: 0.0)

AC-DC Netz:

Akku:

Aux:

Ladestrom:

ESR:

LED's

-
-
-
-

Wandler analoge Port

Aktiv

Rufnummer:

Wahlvorgang:

GSM

The GSM diagnostics are provided on the left-hand side. A green indicator means that there are no errors.

On	GSM module enabled
PIN	PIN code matches SIM card
Reg	SIM card is registered on the network
GPRS IP	SIM card has received an IP address and can connect via IP
Receive networks)	GSM is set up to receive (only possible in closed networks)

Signal strength

This value is refreshed within a few seconds and provides the option of determining the optimal position of the antenna.

- 0% - 16% (red) -> very weak antenna signal
- 16% - 25% (yellow) -> very weak but usable antenna signal
- 25% - 35% (green) -> moderate antenna signal
- 35% - 67% (green) -> good antenna signal
- 67% - 100% (green) -> strong antenna signal

Version	Software version of the GSM module
Own IP	IP address received from the GSM network
IMEI	Serial number of the GSM module
ICCID	SIM identification number
Number	GSM call number, if not blocked
Provider	Provider through which the AZWG10200-PSTN/IP CONVERTER has established a connection, if not blocked
Consumption yesterday	Display of sent and received bytes from today and yesterday

Clock

Status of date and time synchronisation. The background colour indicates the status:

- Green Clock is correctly set and synchronisation is possible
- Yellow Clock is correctly set but no time server is programmed
- Red Clock is not set and is not (yet) synchronised (when restarting it may take some time before synchronisation is complete)

Ethernet/LAN

The LAN/(Ethernet) diagnostics are provided on the right-hand side. A green indicator means that there are no errors.

On	Ethernet/LAN module is active
LAN	LAN/network cable connected
ETH	Ethernet active, valid MAC address
IP	IP address received from the network, DHCP OK
DHCP	DHCP settings active
Own IP	Assigned or set IP address

DNS1 IP address of domain name server 1 (not used)
 DNS2 IP address of domain name server 2 (not used)
 Gateway Assigned or set gateway
 Subnet mask Assigned or set subnet mask
 DHCP server IP address of the DHCP server on the network
 MAC: MAC address of the AZWG10200-PSTN/IP
 CONVERTER

Converter analogue port

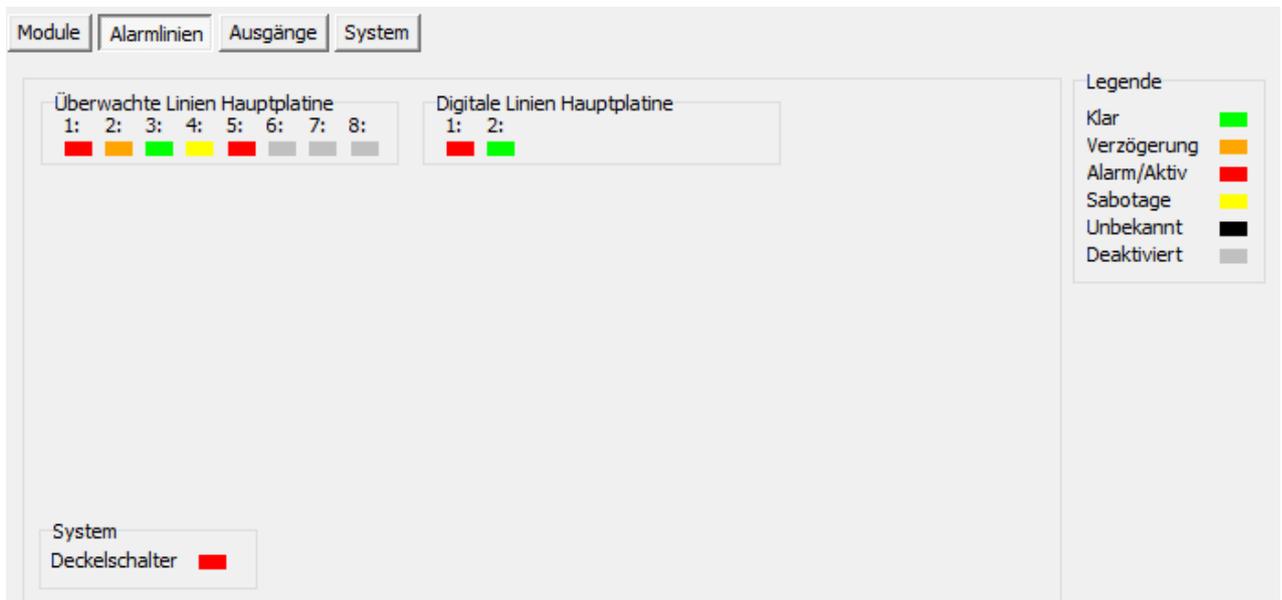
The converter diagnostics show whether the danger alarm system is active on the analogue port.

Active Black filled-in circle; analogue alarm system connection is active
 Call number Display of (last) imported call numbers from the alarm system
 Dialler process Idle: port idle
 Dial tone: AZWG10200-PSTN/IP CONVERTER generates dial time for alarm system
 Modem training: analyse communication type (requirement tones)
[Data state: \(Telim\) \(SIA\) \(CID\) detected protocols](#)

Diagnosis > Alarm lines

The status of the signal lines can be read out using the 'Alarm lines' sub-tab of the 'Diagnosis' tab.

The cover switch status is not used with the AZWG10200-PSTN/IP CONVERTER.



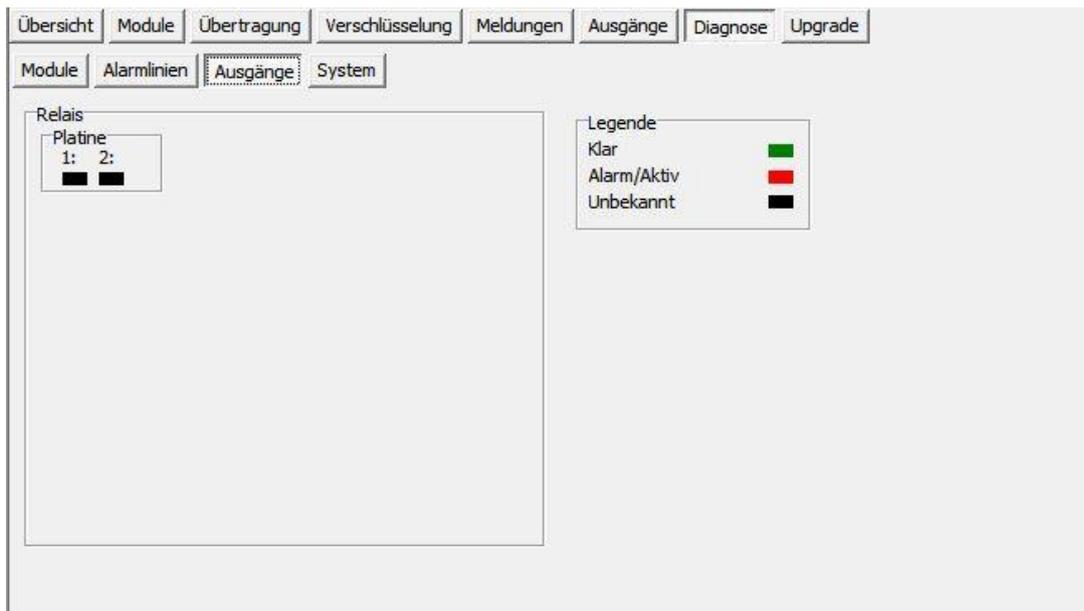
Monitored lines on the motherboard: Eight alarm inputs A1–A8 of the ZWG10200-PSTN/IP CONVERTER motherboard

Digital lines on the motherboard Two AUX inputs D1, D2 of the AZWG10200-PSTN/IP CONVERTER motherboard

Key: Green: input in 'Reset' state
 Orange: in delay time
 Red: active for alarm or fault
 Yellow: tampering (on double resistance monitored inputs)
 Black: unknown, not configured
 Grey: input is disabled

Diagnosis > Outputs

The status of the relays can be read out using the 'Outputs' sub-tab of the 'Diagnosis' tab. Only the diagnostics for the two relays on the motherboard are described here:



Relay:

PCB:

1	OUT1	Status of relay 1, default is transmission error
2	OUT2	Status of relay 2, default is VdS/EN 54-21 fault function

Key: Green: relay in idle state
 Red: active relay in alarm state
 Black: unknown, not configured

Diagnosis > System

The event log can be read out using the 'System' sub-tab of the 'Diagnosis' tab. The event log is divided into: transmission and system.

The screenshot shows the 'System' sub-tab of the 'Diagnosis' interface. It features a navigation pane on the left with 'System' selected under 'Ereignisspeicher'. The main area displays a table of event logs with columns: Index, Linie, Meldung, Auslösezeit, and Quittiert. Below the table, the 'Meldungsinhalt' section shows detailed data for a selected entry.

Index	Linie	Meldung	Auslösezeit	Quittiert
474	TSEC Hauptplatine, A, 2	Fire alarm active	2-2-2017 16:36:42	2-2-2017 16:36:45 (Verbindung:1)
453	TSEC Hauptplatine, D, 1	Tamper alarm active	2-2-2017 16:36:04	2-2-2017 16:36:34 (Verbindung:1)
452	TSEC Hauptplatine, A, 5	Fire alarm active	2-2-2017 16:36:04	2-2-2017 16:36:34 (Verbindung:1)
451	TSEC Hauptplatine, A, 4	Input tamper	2-2-2017 16:36:04	2-2-2017 16:36:34 (Verbindung:1)
450	TSEC Hauptplatine, A, 3	Panic alarm restore	2-2-2017 16:36:04	2-2-2017 16:36:34 (Verbindung:1)
384	TSEC Hauptplatine, A, 2	Fire alarm active	2-2-2017 15:24:54	2-2-2017 15:25:18 (Verbindung:2)
363	TSEC Hauptplatine, D, 1	Tamper alarm active	2-2-2017 15:24:16	2-2-2017 15:25:17 (Verbindung:2)
362	TSEC Hauptplatine, A, 5	Fire alarm active	2-2-2017 15:24:16	2-2-2017 15:25:15 (Verbindung:2)
361	TSEC Hauptplatine, A, 4	Input tamper	2-2-2017 15:24:16	2-2-2017 15:25:14 (Verbindung:2)
360	TSEC Hauptplatine, A, 3	Panic alarm restore	2-2-2017 15:24:16	2-2-2017 15:25:13 (Verbindung:2)
346	TSEC Hauptplatine, A, 2	Fire alarm active	2-2-2017 15:20:41	2-2-2017 15:21:05 (Verbindung:2)
327	TSEC Hauptplatine, D, 1	Tamper alarm active	2-2-2017 15:20:03	
326	TSEC Hauptplatine, A, 5	Fire alarm active	2-2-2017 15:20:03	
325	TSEC Hauptplatine, A, 4	Input tamper	2-2-2017 15:20:03	
324	TSEC Hauptplatine, A, 3	Panic alarm restore	2-2-2017 15:20:03	
268	TSEC Hauptplatine, A, 2	Fire alarm active	2-2-2017 14:04:42	<Warten>
249	TSEC Hauptplatine, D, 1	Tamper alarm active	2-2-2017 14:04:21	<Warten>

Status	Linie	Meldung	Ausgang	Wert
eES_Done	00 00 01 01	11 0D 01 00	FF FF FF FF	32767
Maximum Wiederholung: 0		Wiederholung: 0		
Verbindung: 1		Bearbeitet: 2-2-2017 16:36:45		Bearbeitungszeit: 00:00:03
		Übertragung OK		

Done Green, AZWG10200-PSTN/IP CONVERTER is ready for operation
 Red, AZWG10200-PSTN/IP CONVERTER is not (yet) ready (restart)

Log book Green, log book available
 Red, log book not available (not supported)

Error in index An error has occurred in the listed index number, such as a transmission error

Index	Consecutive number
Line	Input or output of the AZWG10200-PSTN/IP CONVERTER
Notification	VdS, SIA or Contact ID notification
Trigger time	Time of alarm or fault
Acknowledged	Time of acknowledgement from receiver and display of target

Clicking on the index line displays detailed data for the content of the notification, including the processing time.

If there is an error in the index, clicking on the index for the content of a notification displays detailed data for the error, including the processing time.

Module Alarmlinien Ausgänge System

Status Gerät: Fertig

Logbuch

Fehler im Index: 384, 363, 362, 361, 360, 346, 268, 249, 248

Ereignisspeicher: Übertragung, Alle Linien, System, Testmeldungen, Externes, System

Index	Linie	Meldung	Auslösezeit	Quittiert
474	TSEC Hauptplatine, A, 2	Fire alarm active	2-2-2017 16:36:42	2-2-2017 16:36:45 (Verbindung:1)
453	TSEC Hauptplatine, D, 1	Tamper alarm active	2-2-2017 16:36:04	2-2-2017 16:36:34 (Verbindung:1)
452	TSEC Hauptplatine, A, 5	Fire alarm active	2-2-2017 16:36:04	2-2-2017 16:36:34 (Verbindung:1)
451	TSEC Hauptplatine, A, 4	Input tamper	2-2-2017 16:36:04	2-2-2017 16:36:34 (Verbindung:1)
450	TSEC Hauptplatine, A, 3	Panic alarm restore	2-2-2017 16:36:04	2-2-2017 16:36:34 (Verbindung:1)
384	TSEC Hauptplatine, A, 2	Fire alarm active	2-2-2017 15:24:54	2-2-2017 15:25:18 (Verbindung:2)
363	TSEC Hauptplatine, D, 1	Tamper alarm active	2-2-2017 15:24:16	2-2-2017 15:25:17 (Verbindung:2)
362	TSEC Hauptplatine, A, 5	Fire alarm active	2-2-2017 15:24:16	2-2-2017 15:25:15 (Verbindung:2)
361	TSEC Hauptplatine, A, 4	Input tamper	2-2-2017 15:24:16	2-2-2017 15:25:14 (Verbindung:2)
360	TSEC Hauptplatine, A, 3	Panic alarm restore	2-2-2017 15:24:16	2-2-2017 15:25:13 (Verbindung:2)
346	TSEC Hauptplatine, A, 2	Fire alarm active	2-2-2017 15:20:41	2-2-2017 15:21:05 (Verbindung:2)
327	TSEC Hauptplatine, D, 1	Tamper alarm active	2-2-2017 15:20:03	
326	TSEC Hauptplatine, A, 5	Fire alarm active	2-2-2017 15:20:03	
325	TSEC Hauptplatine, A, 4	Input tamper	2-2-2017 15:20:03	
324	TSEC Hauptplatine, A, 3	Panic alarm restore	2-2-2017 15:20:03	
268	TSEC Hauptplatine, A, 2	Fire alarm active	2-2-2017 14:04:42	<Warten>
248	TSEC Hauptplatine, D, 1	Tamper alarm active	2-2-2017 14:04:21	<Warten>

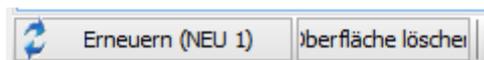
Meldungsinhalt

Status	Linie	Meldung	Ausgang	Wert
eES_Done	00 00 04 01	11 0D 01 00	FF FF FF FF	32767
Maximum Wiederholung: 0 Wiederholung: 0				
Verbindung: 1	Bearbeitet:	2-2-2017 15:25:08	Bearbeitungszeit:	00:00:52
Verbindung: 2	Übertragung in Warteschlange (Wahlwiederholung)		Bearbeitungszeit:	00:00:59
	Bearbeitet:	2-2-2017 15:25:15		
	Übertragung	OK		

Erneuern (NEU 1) | Oberfläche löschen

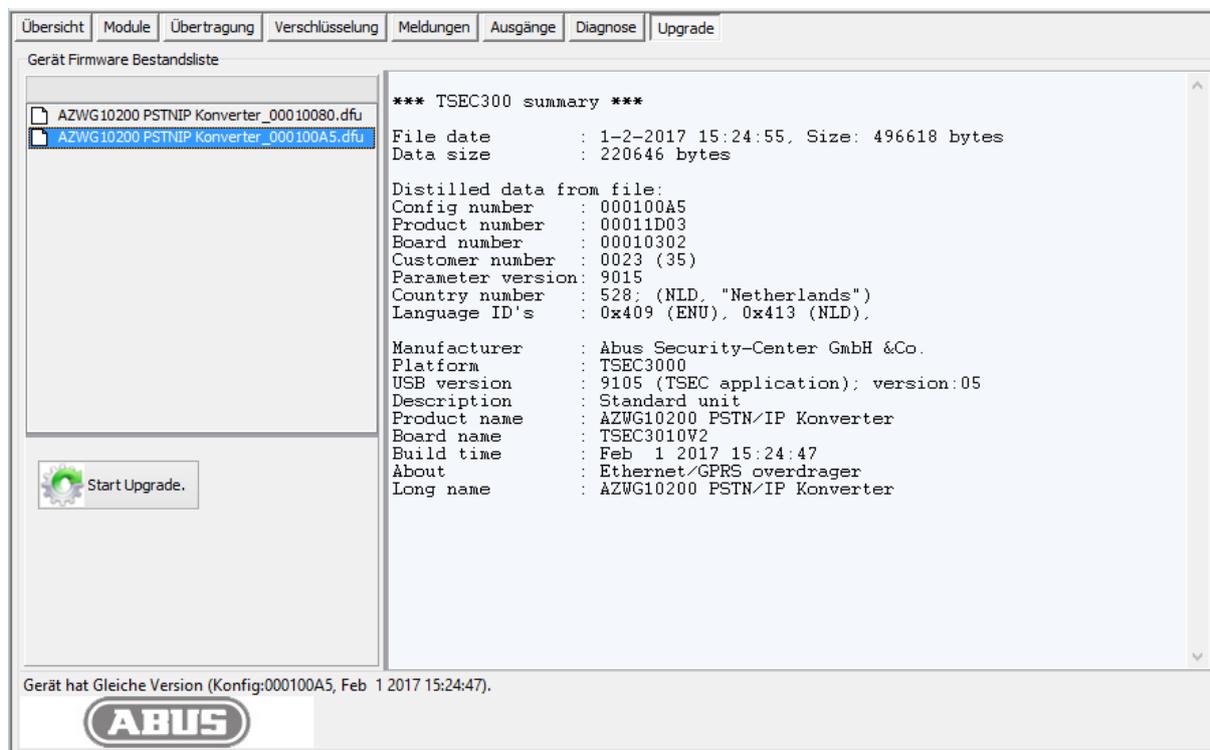
The event log is imported up until the last restart or max. 250 index lines. The next notifications are loaded by scrolling down and double-clicking the ↓ cursor or 'PgDn' when the last notification is reached.

If new notifications occur while connecting to the event log, these are displayed behind the 'Refresh' key. Use the 'Clear interface' key to delete the log book in ParamIt+.

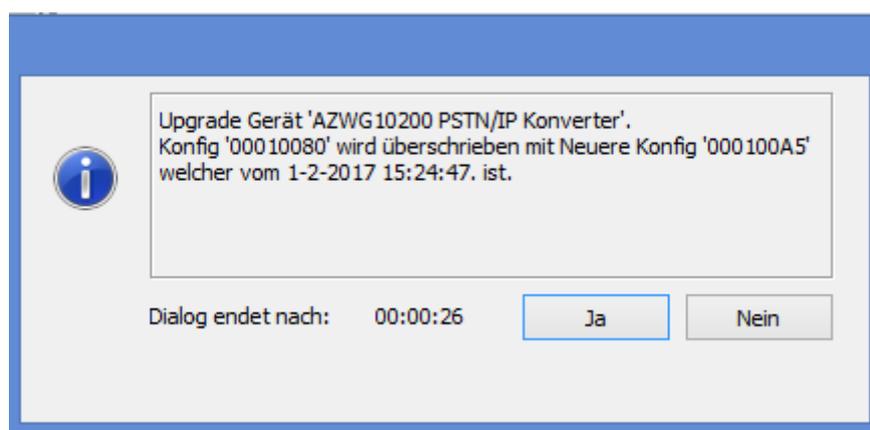


Upgrade

The firmware of the AZWG10200-PSTN/IP CONVERTER can be easily upgraded using the 'Upgrade' tab.



Select the desired upgrade on the left-hand side. Detailed information on the upgrade is displayed on the right-hand side. If the upgrade matches the variant of the AZWG10200-PSTN/IP CONVERTER, the 'Start upgrade' key becomes active. Press 'Start upgrade' and follow the procedure on the screen.



If a different hardware version of the AZWG10200-PSTN/IP CONVERTER is connected, an error message will be displayed at the bottom of the screen.

Upgrade nicht zugelassen. (Unterschiedliche Geräte, TSEC3000E-GP)

Technical data

- Converter port for Telim, Contact ID and SIA analogue
- Power consumption 70 mA when idle, 85 mA when connecting via LAN and 170 mA when communicating via GSM
- 2 relay outputs
- 8 monitored alarm lines
- LED indicator
- 10/100 Mb LAN/Ethernet port
- GSM/GPRS communication module
- 10–28 V DC E-version
- Test and routine notifications
- Poll system with automatic switchover
- USB programming port, remote programming and diagnostics
- VdS 2465, Contact ID and SIA DC-9 TCP/UDP

Warranty

Note	ABUS products are designed and manufactured with the greatest care and tested according to the applicable regulations.
	The warranty only covers defects caused by material or manufacturing errors at the time of sale. If there are demonstrable material or manufacturing errors, the module will be repaired or replaced at the guarantor's discretion.
	In such cases, the warranty ends when the original warranty period of two years expires. All further claims are expressly rejected.
	ABUS does not accept liability for defects and damage caused by external influences (e.g. transport, use of force, operating errors), inappropriate use, normal wear and tear or failure to observe the instructions in this manual.
	In the event of a warranty claim, the original receipt with the date of purchase and a short written description of the problem must be supplied with the product.

Disposal

-	Dispose of the device in accordance with EU Directive 2012/19/EC – WEEE (Waste Electrical and Electronic Equipment). If you have any questions, please contact the municipal authority responsible for disposal. You can find information on collection points for waste equipment from your local community and city government, from local waste disposal companies or your dealer.
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Declaration of conformity

ABUS Security-Center GmbH & Co. KG hereby declares that the device with item number AZWG10200 complies with the essential requirements and other relevant provisions of Directives 2011/65/EC, 2014/30/EC. The declaration of conformity can be obtained from the following address:

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

