

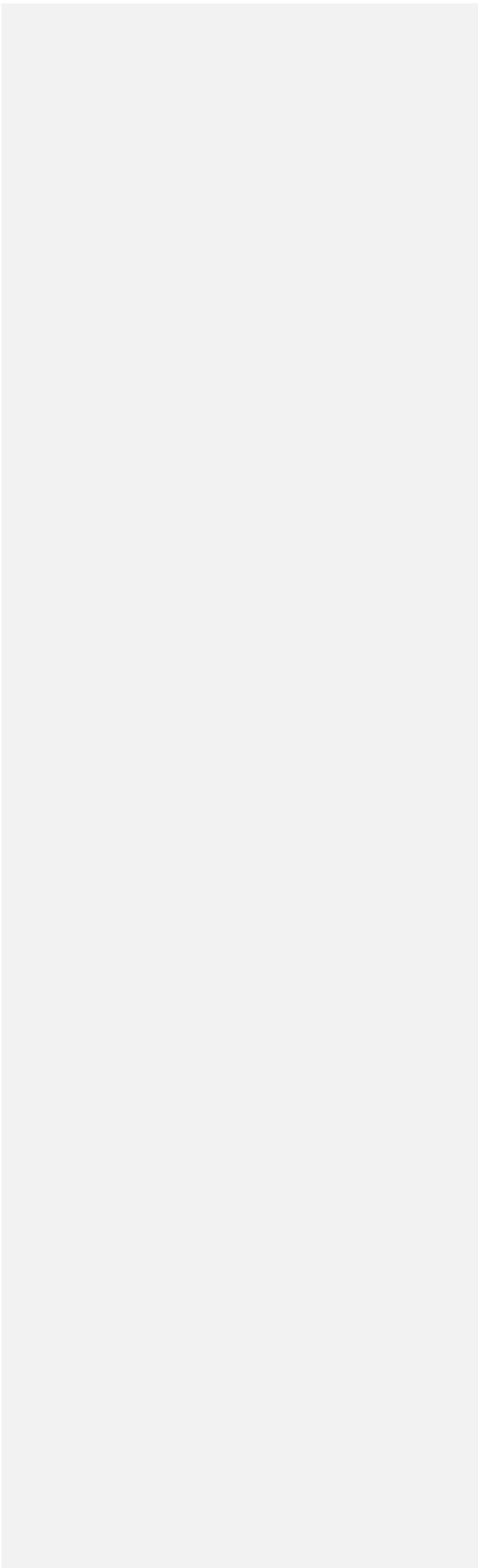


User manual

VAP1-FES

Fire department contact point

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INSTRUCTIONS FOR USE VAP1-FES

Fire department contact point



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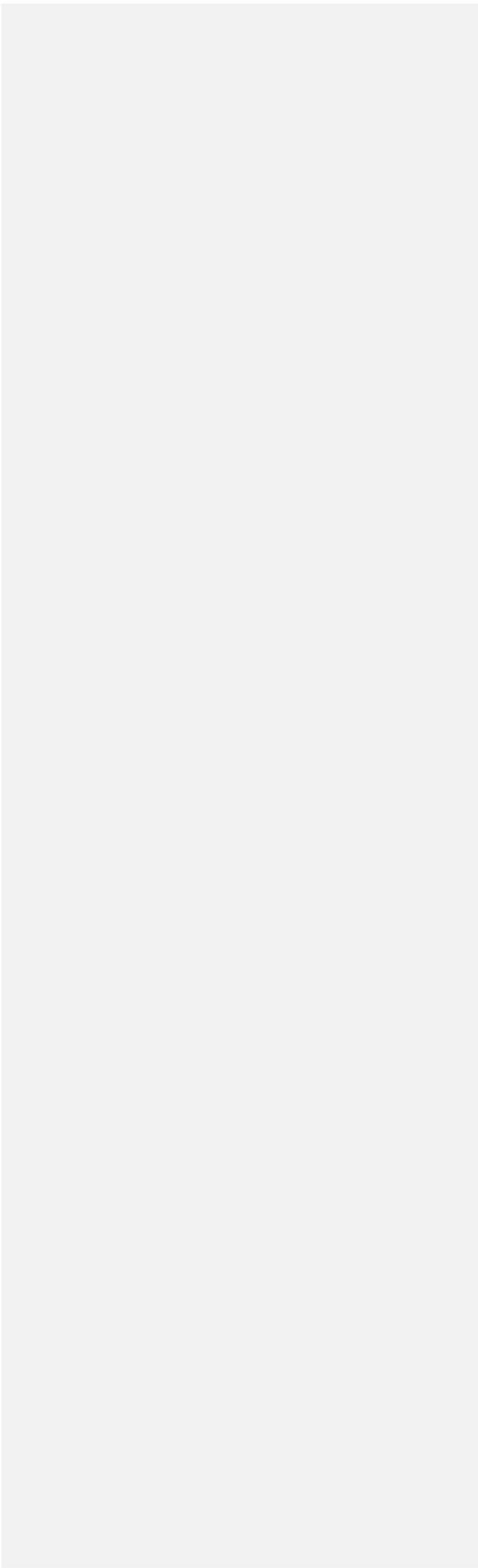
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1 Important safety instructions

1. Please read these safety instructions carefully!
2. Keep this user manual for future reference.
3. The devices must not be exposed to water, and no water containers should be placed on them. Do not use liquid or spray cleaning agents. Do not expose this device to humid conditions.
4. The device must be kept away from open flames.
5. Ensure secure wall mounting. If the device is not mounted securely, it may malfunction. They might fall and be damaged.
6. DO NOT COVER THE DEVICE.
7. Never open the device. For safety reasons, the device should only be opened by qualified personnel.
8. The device must be connected to the voice alarm control panel via an installation cable. become.
9. When connecting the device, ensure correct polarity. Reverse polarity can damage the device or the power supply.
10. Have the device checked by qualified personnel if any of these situations occur:
 - a) The connecting cable is damaged.
 - b) Liquid has entered the device.
 - c) The device was exposed to moisture.
 - d) The device does not work correctly or does not work according to the operating instructions.
 - e) The device fell and was damaged.
 - f) The device shows obvious signs of damage.
11. Cabling must only be performed by trained personnel. Disconnect the MIC/REMOTE output on the system control unit while making connections, or disconnect the system control unit from the power supply. Ensure that the correct cables are used for making the connections.

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2 Introduction

VAP1-FES intercommunication point

The VAP1-FES fire brigade intercom station according to DIN 14664 (FES) is connected to voice alarm systems (SAA) of the NEO product series (NEO system central unit). The FES consists of a basic unit and an emergency microphone (according to DIN EN 54-16), pre-assembled in a suitable housing for low voltages up to 42V and with IP30 protection according to DIN EN 60529. The sheet steel housing, finished in RAL 3000 (fire red), has a door with an acrylic glass window, providing a view of the display and control elements below. The door has a locking insert with a deadbolt. An alternative insert for a fire brigade profile half-cylinder according to DIN 18252 is available via the retrofit kit (FP SSP) . Connection to the central unit (SAZ) is via the ACSI bus in installation method E30 (e.g.,...

Comment [SB1]: Spaces

Installation cable JE-H(ST)H 4x2x0.8 fire alarm cable, CAT6, etc.)

The maximum length of the installation line is 1,000 m.

The redundant operation required according to DIN VDE 0833-4 (5.5 Fail-safe operation; 6.1.2.5 Monitored transmission paths) according to safety levels I to III is achieved using the redundancy module set ART06295 (VAP RM – Redundancy module set for fire brigade intercom stations according to DIN VDE 0833-4) .

VAP1-FES summation functions:

Manual live fire alarm announcements according to DIN VDE 0833-4 for warning and giving instructions to persons to avoid personal injury in case of fire via the integrated emergency microphone.

Manual activation of stored emergency messages (e.g., fire alarm announcement, warning announcement), as well as deactivating the automatic voice alarm announcement, is also possible manually (automatic off).

Comment [SB2]: Activate

The priority order follows DIN VDE 0833-4; 6.2.1.3.8 priority order.

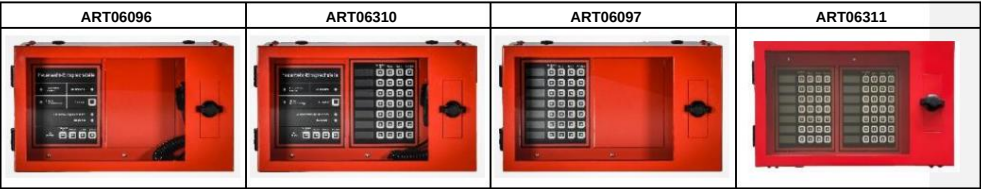
Optical status indicators according to DIN 14664:

"Intercom station in operation"; "Fire emergency operation"; "Voice alarm system malfunction"; "Attention signal running/occupied"; "Speak now".

Optical inspection of all display elements according to DIN 14664 with additional acoustic testing of the internal signal generator.

The VAP1-FES fire brigade communication unit is offered in the following configurations:

Fire department contact point VAP1-FES	Fire department contact point 7 zones VAP1-FES 7Z	7-zone expansion unit including housing VAP1-FES ERW 7Z	14-zone expansion unit including housing VAP1-FES ERW 14Z
--	--	--	--



Optional accessories:

- ART06245 – Redundancy module set (VAP RM)^
- ART03177 - Locking system for mounting profile half cylinders (FP SSP)

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3 Normative requirements

- DIN 14664 Firefighting – Fire service communication point
- DIN EN 54-16 Fire alarm systems – Part 16: Voice alarm control panels (emergency microphone)
- DIN EN 54-4 Fire alarm systems – Part 4: Power supply equipment
- DIN 14575-1 Fire alarm systems – Part 1: Design and operation
- DIN EN 16763 Services for fire safety systems and security systems
- DIN 18252 Profile cylinders for door locks – terms, dimensions, requirements, test methods and Markings
- DIN EN 60529 Degrees of protection provided by enclosures (IP code)
- DIN VDE 0833-1 Alarm systems for fire, burglary and robbery – Part 1: General requirements
- DIN VDE 0833-2 Alarm systems for fire, burglary and robbery – Part 2: Specifications for Fire alarm systems
- DIN VDE 0833-4 Alarm systems for fire, burglary and hold-up – Part 1: Specifications for systems for Voice alarm in case of fire
- DIN EN 55032 Electromagnetic compatibility of multimedia devices and equipment – Requirements for interference emission
- DIN EN 62368-1 Equipment for audio/video, information and communication technology – Part 1: Safety requirements
- DIN EN 55035 Electromagnetic compatibility of multimedia devices – Immunity requirements
- DIN EN IEC 63000 Technical documentation for the assessment of electrical and electronic equipment with regard to the restriction of hazardous substances
- Additional normative usability requirements for the following systems:
- DIN EN 50848 Electroacoustic emergency warning systems
- DIN VDE V 0827 Emergency and hazard response systems (Parts 1 to 3)
- DIN CEN/TS 54-32 Fire alarm systems – Part 32: Design, installation, commissioning, operation and Maintenance of voice alarm systems
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4 Overview
4.1 Controls

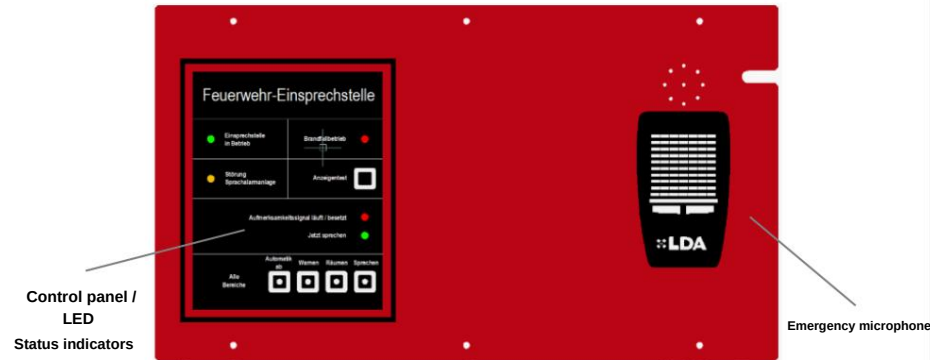


Figure 1: Front view VAP1-FES

4.2 Operating and display elements



Figure 2: Control elements VAP1-FES

- a The consultation point is in operation
A green LED indicates operational readiness.
- b. Fault in voice alarm system
An orange LED indicates a fault in the SAA.
- c Fire emergency operation
A red LED indicates "emergency mode".
- d Display test
When the button is pressed, the display fields are cycled through sequentially with an acoustic signal.
- The attention signal is running/occupied.
The display flashes for as long as the attention signal is active. During this time, microphone transmission is blocked.
- f Now speaking.
As soon as the LED lights up green, the microphone transmission is active.
- g Automatically
switches off the transmission of the "fire emergency operation" triggered by the fire alarm system ("Emergency") Messages in and out.
- h Warn
Triggers the stored warning message or stops it when the "Warn" button is pressed again.
- in rooms
Triggers the stored emergency evacuation text or stops it when the "Evacuate" button is pressed again.
- Speaking
To activate the emergency microphone, the "Speak" button must first be pressed.

Commentado [SB3]: Do they stay switched on, or are they only displayed briefly?

Comment [SB4]: Capitalization

Commentado [SB5]: Hyphen - - ?

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5 VAP1-FES housing
5.1 Disassembly of the front panel



Figure 3: VAP1-FES - Front view

- Removing the front panel
- Loosen the 6 M4 x 8mm pan head screws as shown in Figure XX.
and lift off the front panel, starting on the right at the emergency microphone and moving upwards.



Figure 4: Interior view VAP1-FES

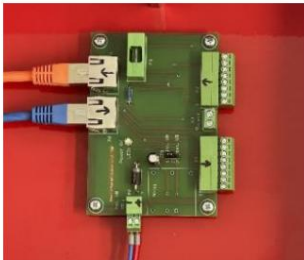


Figure 5: Connection board VAP1-FES

- CAT cable and power supply
- As shown in Figure XX, disconnect the power supply connector (Figure 4) and the two CAT connection cables to the VAP1 Control PCB module.

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5.1.1 Dimensions for wall mounting

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5.3 Cable inlets

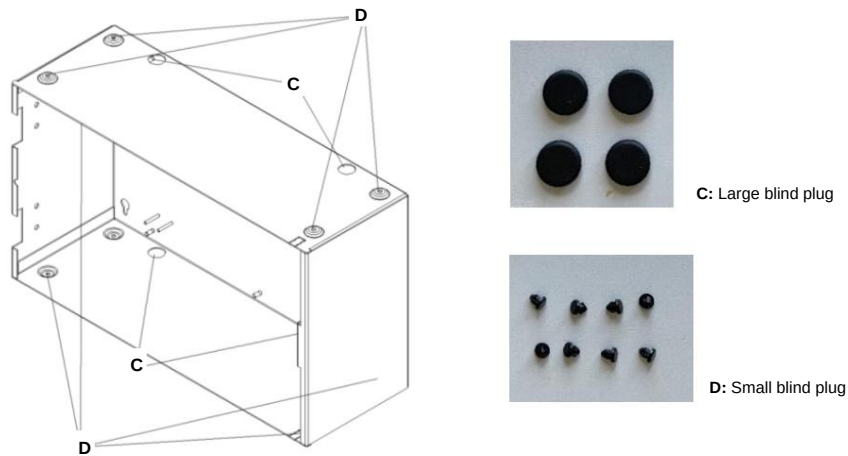


Figure 7: VAP1-FES – Housing

- The cable inlets are covered using the pre-installed blanking plugs included in the scope of delivery.
- The small picture plugs cover the holes required for screwing together several VAP1-FES housings and are also pre-assembled.

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6.2 ACSI bus pin assignment

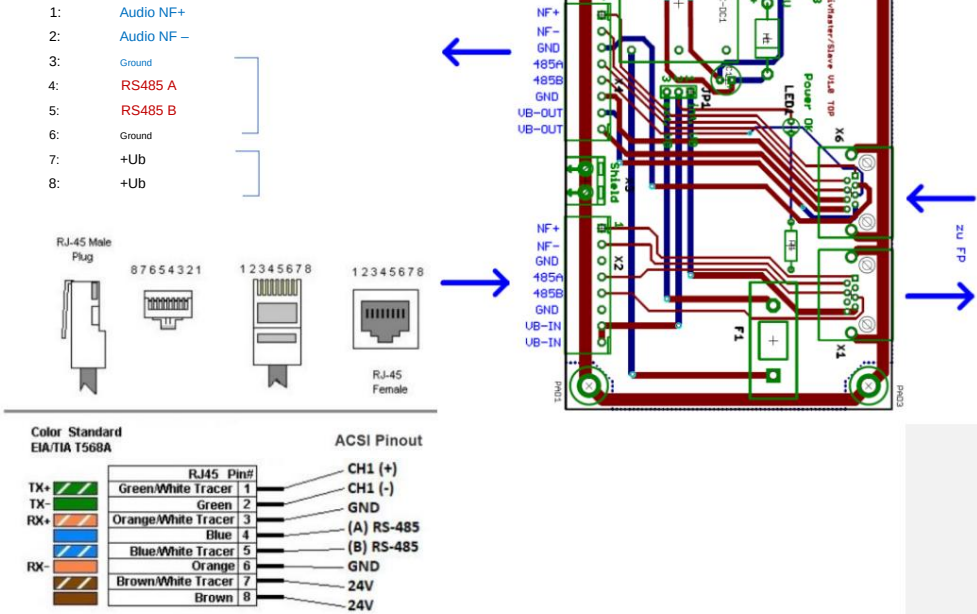


Figure 9: Adapter board layout

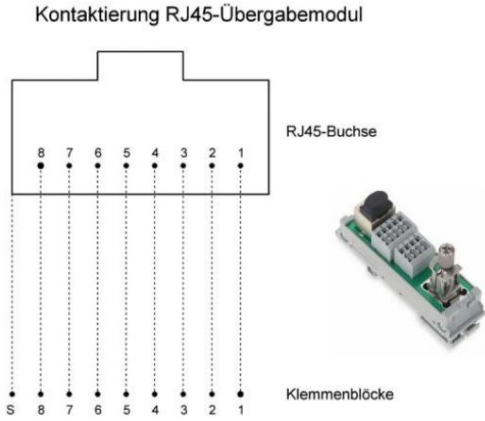


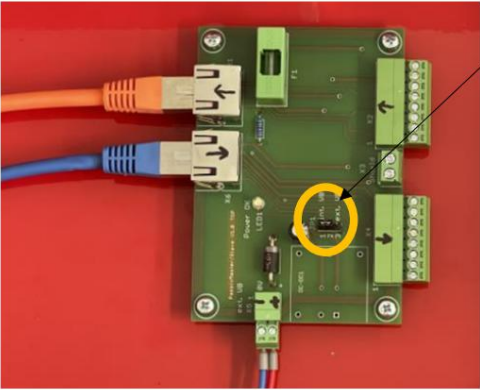
Figure 10: RJ45 transfer module SAZ

6.3 Configuration of the components

6.3.1 Configuration - Adapter board

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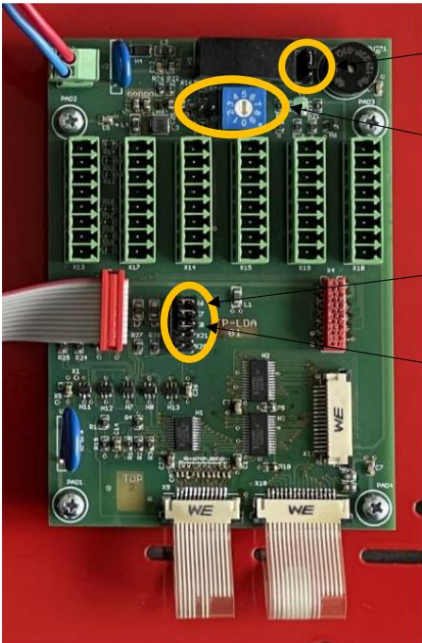
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- JUMPER JP1
Position 1-2
int. VB (internal power supply)

Figure 11: Adapter board jumper settings

6.3.2 Configuration - Keyboard Interface Board



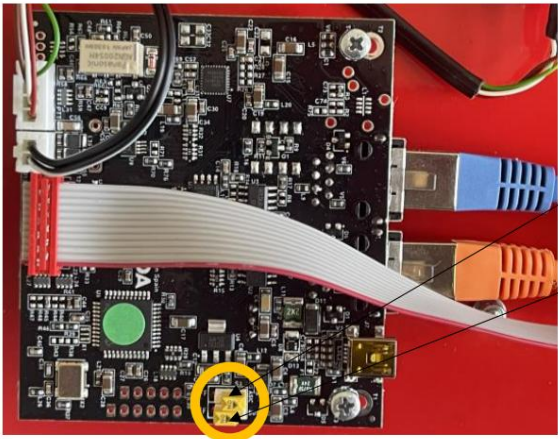
- JUMPER X22
Position 1-2
External power supply
- JUMPER X2
open
Mainboard – no extension
- JUMPER X6 / X7 / X8
set
The mainboard is the last board in the bus.
- JUMPER X21 / X20
open

Figure 12: Keyboard interface board - Jumper settings

6.3.3 Configuration - PCB module

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- 24V BUS ACSI
ON
Power supply via the internal bus
- BUSEND
ON/OFF depending on whether other intercom stations are present in the system

Figure 13: VAP1-PCB-Control - Jumper setting

BUSEND: In an SAA system, the fire department intercom station is mandatory as the first intercom station on the ACSI bus. Therefore, the bus is terminated and the slide switch is set to the **ON** position if the VAP1-FES is the only intercom station connected to the ACSI bus.

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7 Final assembly of the front panel

After connecting to the cable network, the front panel is mounted. Care must be taken to ensure that... the individual components are connected according to the block diagram and point 6.1.

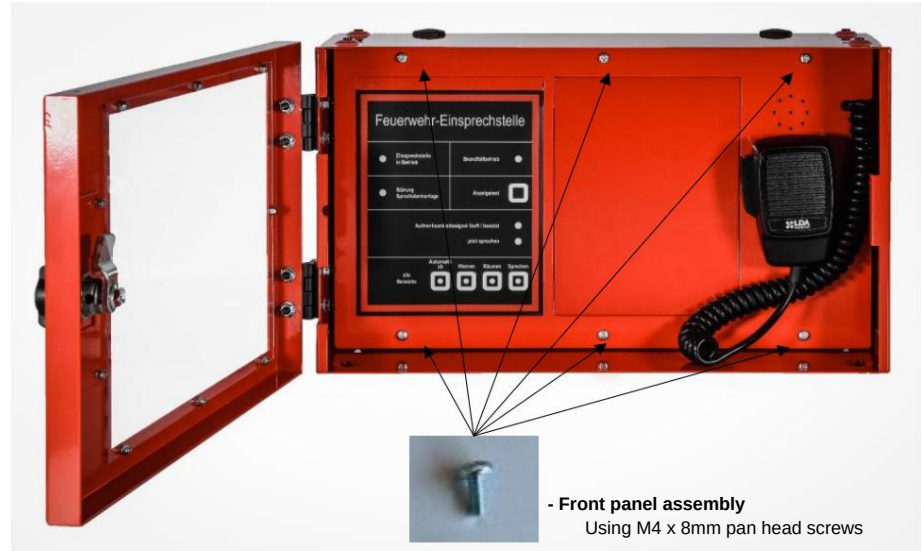


Figure 14: Fully assembled VAP1-FES

8 System Requirements

To commission a VAP1-FES fire department intercom station on a NEO 8060 system controller, firmware version v2.41 or higher must be installed. NEO Configurator version v2.40 or higher is required for setup.

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9 NEO 8060 Configuration

In this context, we refer you to the user manual for the NEO Configurator.

9.1 Add VAP1-FES fire brigade intercom station to system configuration

The further development of the ACSI (Audio Control Supply Interface) communication bus to version 2 forms the basis for operating a VAP1-FES on the NEO 8060 system controller.

9.1.1 Basic settings after resetting to factory settings

The basic settings of the NEO 8060 system central unit allow for simplified initial setup. In its default state, after a firmware update to v2.41.xx or higher, or after resetting to The NEO 8060 controller is set to the following factory settings:

ASCII Bus Mode - "Automatic Detection"

ACSI Device Configuration – Activate ACSI Device Plug and Play:

The ACSI Bus Mode menu item can be found under (see image below):

- Controller
 - o 001 NEO8060
 - y Expanded
 - ACSI Bus Mode
 - The drop-down menu opens when you click in the field. "Automatic detection"

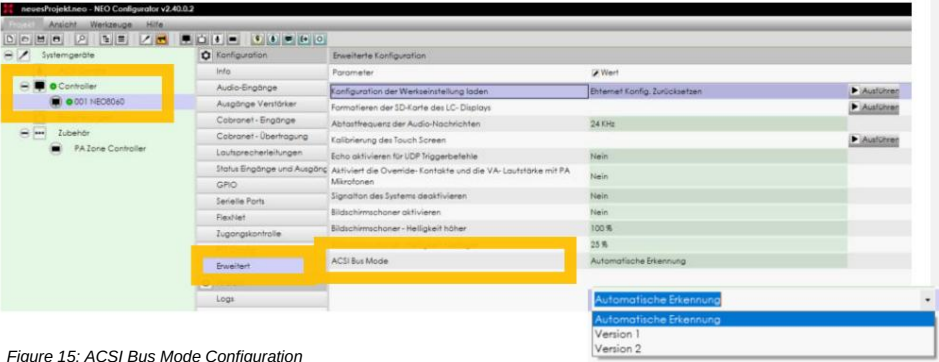


Figure 15: ACSI Bus Mode Configuration

After completing the configuration, it is recommended to set the ACSI bus mode to "Version 2".

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9.1.2 Device search tool (magnifying glass)

The VAP1-FES is displayed under "Discovered Devices" in the device search tool when it is connected to the system controller. The IP address indicates the address to which the VAP1-FES fire department intercom is configured. By default, this is set to address 1 (see the diagram below). How to change the address is explained in Chapter 10.

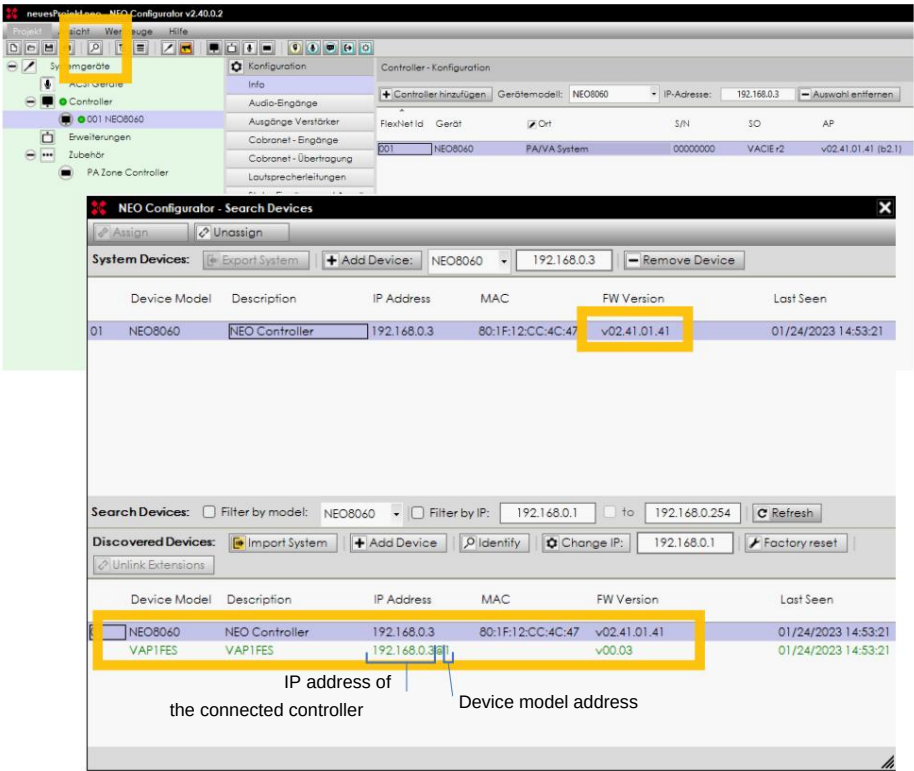


Figure 16: NEO Configurator "Search"

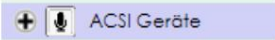
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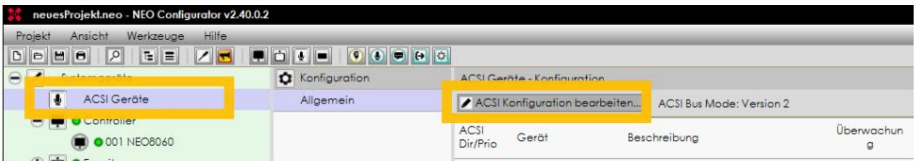
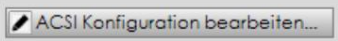


9.1.3 ACSI Device Configuration – Adding a Microphone

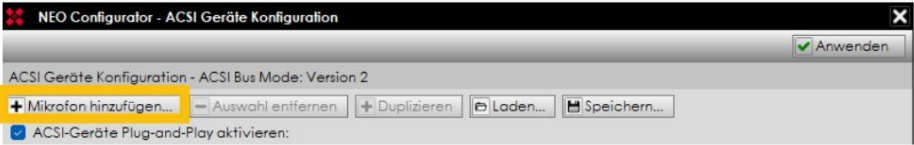
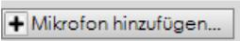
1. Under the category System Devices
Select ACSI devices



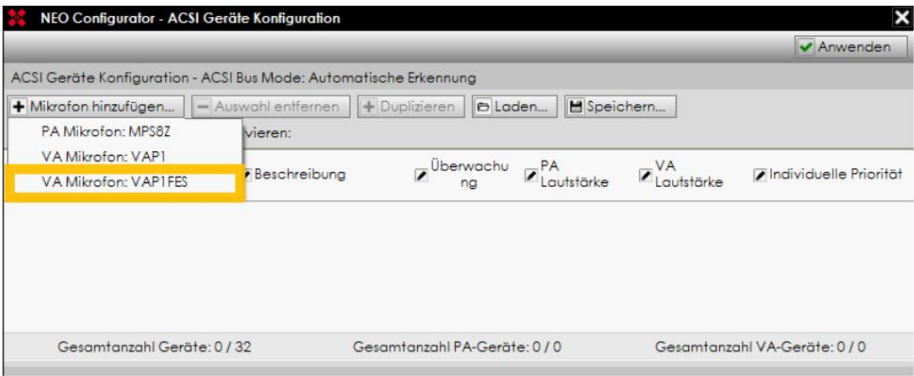
2. Edit ACSI configuration



3. In the newly opened window
Add microphone



4. From the VA Microphone drop-down menu, select VAP1FES



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NEO Configurator - ACSI Geräte Konfiguration

ACSI Geräte Konfiguration - ACSI Bus Mode: Version 2

Mikrofon hinzufügen... Auswahl entfernen Duplizieren Laden... Speichern...

ACSI-Geräte Plug-and-Play aktivieren:

ACSI Dir/Prio Gerät Beschreibung Überwachung PA Lautstärke VA Lautstärke Individuelle Priorität

VAP1FES

0 dB 0

a. b. c. d. e. f. g.

Gesamtanzahl Geräte: 1 / 32 Gesamtanzahl PA-Geräte: 0 / 1 Gesamtanzahl VA-Geräte: 1 / 1

Tasten-Konfiguration für VAP1FES auf Adresse 1

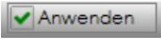
Alle Tasten in Zonen-Modus Alle Tasten in Gruppen-Modus Lade Grund-Konfiguration Lösche alle ID-Zuweisungen

Tasten-Nr. Zone Gruppe Zonen- / Gruppen-Nr.

1	☒	☐	1
2	☒	☐	2
3	☒	☐	3
4	☒	☐	4
5	☒	☐	5
6	☒	☐	6
7	☒	☐	7
8	☒	☐	8
9	☒	☐	9

5. The selected option will be displayed in the status bar.
6. Fields marked with the edit symbol can be edited.
- a. ACSI Bus Address
 - b. Device selection
 - c. Individual device description (e.g. "FES at the main entrance")
 - d. Monitoring enabled ☒ or disabled ☐
 - e. PA volume (is excluded with the VAP1-FES)
 - f. VA Volume (Volume in case of alarm)
 - g. Individual priority (comes into play when multiple VAP1-FES are in one system become!)

7. Confirm with "Apply".

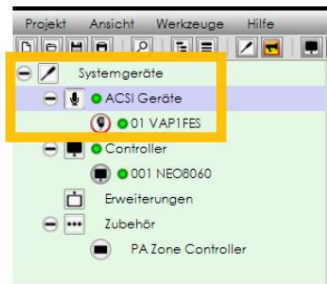


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8. A "green" status indicator signals operational readiness.



9. The status bar provides information about the current operating status and firmware version.

ACSI Geräte - Konfiguration					
ACSI Konfiguration bearbeiten...					
ACSI Dir/Prio	Gerät	Besc	Status	Token	Firmware
1	VAP1FES		Ruhe		v00.03

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10. Setting on the VAP1-FES

10.1 Address configuration
(Delivery state: Address 1)

- The system must **not** be in EMG status (LED "Fire emergency operation" = OFF)
- Press and hold the "Display text" button simultaneously for approximately 3 seconds "Automatic" Press " off"



- Switching to address configuration mode is indicated by the simultaneous flashing of the LEDs. "Interview point in operation" and "Voice alarm display malfunction" is indicated.

Automatic <i>away</i>	Warn	Rooms Speaking	now Speak	address
ON				1
	ON			2
		ON		3
			ON	4
ON			ON	5
	ON		ON	6
		ON	ON	7
			ON	8

"Automatic
away" "Speak"



- The selected address 1-8 is indicated by the LEDs listed in the address table.
- Pressing the "Speak" button increments the address; Pressing the "Automatic off" button reduces the address.
- Confirmation and termination will take place with the "Display text" button .

If no input is received within 30 seconds, the configuration mode will automatically end WITHOUT saving any changes.

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10.2 Warning tone configuration

- The system must **not** be in EMG status (LED "Fire emergency operation" = OFF)
- Press and hold the "Display Text" button $\bar{y}$ while simultaneously pressing the "Speak" button $\bar{y}$ for approximately 3 seconds.



- Switching to the warning tone configuration mode is indicated by the simultaneous flashing of the LEDs. "Interview point in operation" and "Malfunction of the voice alarm display" and "Attention signal running / occupied signaled."



- The "Speak" button $\bar{y}$ switches the warning tone function ON or OFF.
- The red LED "Speak" indicates the selected Condition:
 - LED OFF: Warning tone OFF
 - LED ON: Warning tone ON
- Confirmation and termination will take place with the "Display text" button $\bar{y}$.

If no input is received within 30 seconds, the configuration mode will automatically end WITHOUT saving any changes.

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11 Operation

Reference is made here to the DIN 14664 Firefighting – Firefighting Intercom Station. The operation of the VAP1-FES firefighting intercom station is based on the functions required therein (see A.4 "Flowchart to illustrate the functions and their mutual influence") and fully fulfills these requirements.

Note:

Standard practice does not provide a reset button on the FES control panel, so resetting the fire alarm operation after intervention by
The FES takes place exclusively on the system controller of the SAZ.
This requires authorization for access level 3.



11.1 Functions

The tables below show the functions of the VAP1-FES fire department intercom station depending on the operating state. Four basic states are distinguished:

1. Objection point in operation
2. Voice alarm system malfunction (collective malfunction)
3. Fire alarm operation triggered via the alarm inputs of the voice alarm system.
4. Manual triggering of the fire alarm operation at the FES (via "Automatic off"; "Warn"; "Evacuate"; "Speak") - without the fire alarm operation being triggered.

11.1.1 "Display test"

- If the VAP1-FES is in operation, pressing and holding the "Display test" button will activate the The display element check has started. The acoustic signal is sounding continuously and the The indicator elements light up sequentially.
- Furthermore, the "Display Test" button is used to switch off the acoustic signal generator of the VAP1-FES and the SAZ

11.1.2 "Automatic Off"

- Pressing the "Automatic Off" button puts the SAA into fire alarm mode; the acoustic signal sounds. and can be switched off using the "Display Test" button.
- If the SAA is in fire alarm mode, pressing the "Automatic Off" button will deactivate an automatically triggered voice alarm announcement.
- If the button is pressed again and the alarm contact is still connected, the automatically triggered voice alarm message will be played again.

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11.1.3 “Warn”

- Pressing the "Warning" button triggers the fire alarm operation (EMG) in the SAA and starts the process in the System-integrated voice alarm message ALERT/Warn.
- Pressing the "Warn" button again stops the voice alarm announcement ALERT/Warn.
- The fire department's control unit retains the "automatic off" state.
- Pressing the "Automatic off" button returns the overarching control of the fire department's intercom station to the system's central unit.

11.1.4 “Clearing”

- Pressing the "Evacuate" button triggers the fire alarm system (EMG) and starts the emergency evacuation text EVAC/Evacuate stored in the system. See Chapter XX
- Pressing the "Evacuate" button again stops the voice alarm announcement EVAC/Evacuate.
- The fire department's control unit retains the "automatic off" state.
- Pressing the "Automatic off" button returns the overarching control of the fire department's intercom station to the system's central unit.

11.1.5 “Speaking”

- Pressing the "Speak" button activates the emergency microphone and triggers fire alarm operation (EMG) in the SAA. See Chapter XX
- Pressing the "Speak" button again will deactivate the emergency microphone.
- The fire department's control unit retains the "automatic off" state.
- Pressing the "Automatic off" button returns the overarching control of the fire department's intercom station to the system's central unit.

Live fire alarm announcement

- After activating the emergency microphone via the "Speak" button, the emergency microphone is removed from its holder to make a live announcement.
- Pressing the talk button located on the side of the emergency microphone will trigger the attention signal, depending on the warning tone configuration (see Chapter 10.2) . This is indicated by a flashing red light: "Attention signal active / occupied." No announcement can be made during this time.
- With a continuous green light indicating "speak now", the live fire alarm announcement can begin.

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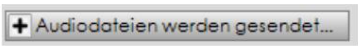
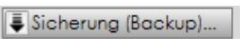
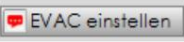
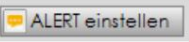
12 voice alarm announcements / audio files / messages

12.1 General

All audio files are stored centrally in the system's central unit, NEO 8060, on the front SD card.

Under the menu item "News" you will find:  Nachrichten The following settings can be made



- Import audio files 
- Export/Back up audio files 
- Remove audio files 
- Assign EVAC and ALERT  

12.2 Importing audio files

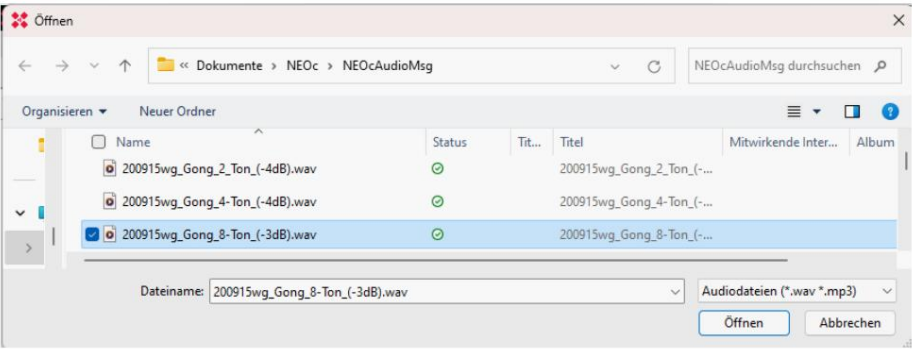


A new dialog box opens when you click the "Send audio files" button. The audio files to be imported are selected using the file manager, which can be accessed via the "Add" button. opens automatically.

The common audio formats *.wav and *.mp3 are supported with a file size of up to 62 MB.

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Once the import is complete, the files will be available to the system.

Nachrichten - Konfiguration						
+ Audiodateien werden gesendet... ⬇️ Sicherung (Backup)... ➡️ Auswahl entfernen 🗨️ EVAC einstellen 🚨 ALERT einstellen						
Id	VA	Name	Größe	Dauer	Abtastfrequenz	
0001	ALERT	Alert	550 KB	00:11	24 KHz	
0002	EVAC	Evac	294 KB	00:06	24 KHz	
0003		Audiodatei_1	543 KB	00:11	24 KHz	
0004		Audiodatei_2	403 KB	00:08	24 KHz	
0005		Fire alert	276 KB	00:05	24 KHz	
0006		Fire evac	543 KB	00:11	24 KHz	
0007		200915wg_Gong_8-Ton_(-3dB)	307 KB	00:06	24 KHz	

12.3 Backing up audio files

To back up the audio files, select a file (highlighted in color). After clicking the "Backup" button, select the destination directory and complete the process with "Save".

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12.4 Removing audio files

Audio files are removed by selecting one or more files and deleting them with "Remove". Note: This action cannot be undone.

12.5 Assign rooms / EVAC / evacuation message

The audio file played when the "Clear" button is pressed at the fire department's intercom station is determined by the assignment under the VA (Voice Alarm) section. The currently selected file is shown in RED. shown and marked with EVAC in the VA section .

To change the assignment, select an audio file and confirm with "Set EVAC".

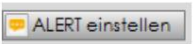


The newly selected file will then be displayed in RED and marked with EVAC in the VA section.

12.6 Assigning Warning / Alert / Warning Message

The audio file played when the "Warning" button is pressed at the fire department's intercom station is determined by the assignment under the VA (Voice Alarm) section. The currently selected file is shown in YELLOW. displayed and marked with ALERT in the VA section .

To change the assignment, select an audio file and confirm with "Set ALERT".



The newly selected file will then be displayed in YELLOW and marked with ALERT in the VA section .

Nachrichten - Konfiguration						
+ Audiodateien werden gesendet... ↓ Sicherung (Backup)... − Auswahl entfernen 🗨️ EVAC einstellen 🗨️ ALERT einstellen						
Id	VA	Name	Größe	Dauer	Abtastfrequenz	
0001		Alert	550 KB	00:11	24 KHz	
0002		Evac	294 KB	00:06	24 KHz	
0003		Audiodatei_1	543 KB	00:11	24 KHz	
0004		Audiodatei_2	403 KB	00:08	24 KHz	
0005	EVAC	Fire alert	276 KB	00:05	24 KHz	
0006	ALERT	Fire evac	543 KB	00:11	24 KHz	

12.7 Renaming audio files

You can rename the audio file by double-clicking in the "Name" column.

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13 options

13.1 Locking system for profile half cylinders

The VAP1-FES housing comes standard with a toggle lock. This can optionally be replaced by a locking system for a profile half-cylinder.



Figure 18: Toggle lock



Figure 17:
FP SSP ART03177 Locking system for profile half cylinders

13.1.1 Disassembly of standard lock

- Loosen 4 x M3 nuts using a 5.5mm wrench/socket;
Remove washers
- Lift the toggle lock upwards
- Set aside nuts, toothed washers and flat washers for later use.



Figure 19: Toggle lock - rear view

13.1.2 Installation of locking system for profile half cylinder

- Insert locking system for profile half cylinder - Fastening is done with the existing washers, Toothed washers and nuts M3



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AUDIO SECURITY SYSTEMS

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