Operating Manual
8 XASC 001 - Addressable Speaker Control Module

UMN-344-070-100 • V01 • EN • 28.11.2025

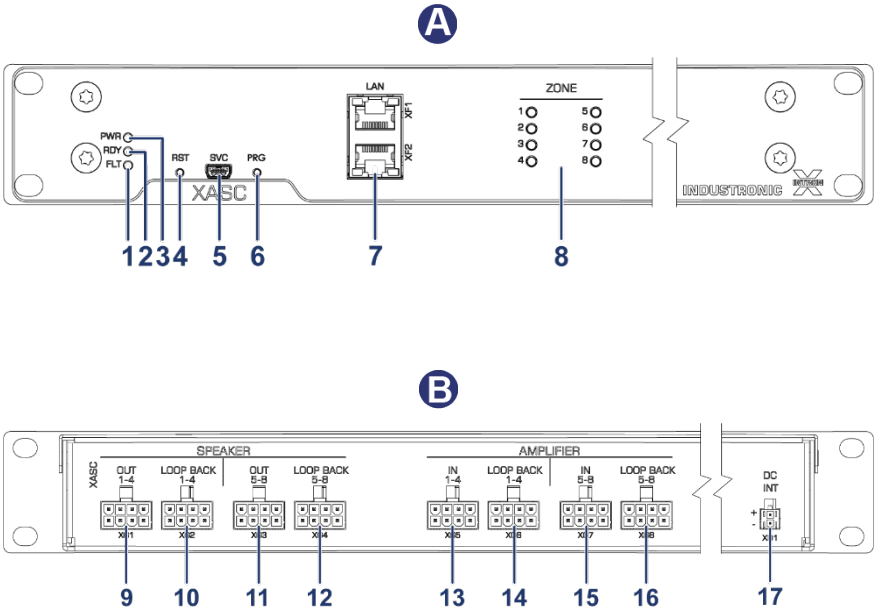

A
LAN
XF1
XF2
ZONE
1
2
3
4
5
6
7
8
PWR
RDY
FLT
RST
SVC
PRG
XASC
INDUSTRONIC
1 2 3 4 5 6 7 8
B
SPEAKER
AMPLIFIER
XASC
OUT 1-4
LOOP BACK 1-4
OUT 5-8
LOOP BACK 5-8
IN 1-4
LOOP BACK 1-4
IN 5-8
LOOP BACK 5-8
DC INT
X11
X12
X13
X14
X15
X16
X17
X18
X11
9 10 11 12 13 14 15 16 17

Table of Contents

1 Device Overview

Figure A	
1	LED *FLT* (FAULT), fault indication Off: No fault detected. Orange light: Fault detected.
2	LED *RDY* (READY), operating status indication Off: Device is not ready for operation. Green light: Device is ready for operation.
3	LED *PWR* (POWER), operating voltage indication Off: No operating voltage applied, device is out of operation. Green light: Operating voltage applied, device is in operation.
4	Button *RST* (RESET), device restart The reset button is used to restart the device if you cannot perform a restart with the INTRON-X Service Tool. Before using the reset button, try to restart the device via the INTRON-X Service Tool.
5	Service interface *SVC* (Mini USB) for local access via the INTRON-X Service Tool software and for commissioning and service purposes
6	Button *PRG* (PROGRAM), device reset to factory settings
7	2 x network interfaces *LAN* *XF1* and *XF2*: Ethernet interfaces without PoE, RJ45 port
8	8 x LEDs *ZONE* for status indication per amplifier channel or speaker circuit Off: Amplifier channel or speaker circuit in pass-through mode (normal operation, announcements possible) Green light: amplifier channel or speaker circuit in remote tapping mode (no announcements possible)

Figure B	
9	Terminal *OUT 1-4* for outputs to speaker line/loop 1 to 4
10	Terminal *LOOP BACK 1-4* for loopbacks from speaker loop 1 to 4 (only used for speaker loops)
11	Terminal *OUT 5-8* for outputs to speaker line/loop 5 to 8
12	Terminal *LOOP BACK 5-8* for loopbacks from speaker loop 5 to 8 (only used for speaker loops)
13	Terminal *IN 1-4* for inputs from amplifier or zone selector 1 to 4

14	Terminal *LOOP BACK 1-4* for loopbacks to amplifier or zone selector 1 to 4 (only used for speaker loops)
15	Terminal *IN 5-8* for inputs from amplifier or zone selector 5 to 8
16	Terminal *LOOP BACK 5-8* for loopbacks to amplifier or zone selector 5 to 8 (only used for speaker loops)
17	DC power supply *DC INT*

2 About this Operating Manual

2.1 Purpose

This operating manual is about the Addressable Speaker Control Module *8 XASC 001*. Among other things, you will find information on mounting, wiring and commissioning.

Thoroughly read all chapters and always follow the safety messages specified in this manual.

2.2 Target Group

This operating manual is intended for all users who have to mount, wire and commission the Addressable Speaker Control Module *8 XASC 001*.

To ensure safe operation and safe use of the device, only qualified staff trained in electrical engineering is allowed to carry out any type of work.

2.3 Validity

This operating manual is valid for the Addressable Speaker Control Module *8 XASC 001.*

2.4 Applicable Documents

As the configuration for each Addressable Speaker Control Module may vary due to different customer or project requirements, observe the project-specific functional description and the corresponding connection diagram.

Observe the integrated help of the INTRON-X Service Tool in order to be able to use additional functions (→ chapter 8, page 28).

Also observe the INDUSTRONIC Cabling Guidelines (→ GDL-330-001-403) and Guideline for Recycling (→ GDL-330-001-020) supplied with system documentation.

2.5 Storage

This operating manual is part of the product and must be available on site throughout the life cycle of the product.

2.6 Copyright

3 Safety

The device has been designed according to the latest state of the art and complies with the applicable safety regulations at the time of market launch. Nevertheless, the user or third parties can be exposed to function-related dangers for life and limb during operation, or the device and other material assets can be damaged.

General

- Before using the device, thoroughly and fully read this operating manual.
- Follow all safety messages. Disregarding them can cause fires, electric shocks, or other injuries, or the device and other material assets can be damaged.
- Keep this operating manual in a safe place for future reference. It must always be available and accessible for all operators on site, where the device is used.
- Observe general statutory regulations and guidelines on work safety as well as safety, mounting, and accident prevention regulations.
- Observe the mounting and wiring instructions as described in this operating manual. Otherwise, the warranty claim against INDUSTRONIC may become void.
- Do not continue to operate the device or its accessories when damaged. Any type of damage to the device must only be repaired by INDUSTRONIC.

Operating Location

- The Addressable Speaker Control Module is designed for permanent indoor use and can be operated under ambient temperatures between -15 °C and +55 °C (+5 °F and +131 °F). Relative humidity must be under or at max. 95 %. The device´s degree of protection is IP20.
- Do not use the device under operating conditions which differ from those stated in this operating manual (→ chapter 4.1, page 8).
- Neither expose the device to rain nor humidity.

Risk of Explosion

- Do not use the device in potentially explosive areas.

Electrical Installation

- Do never connect speakers without DC protection directly to the 100-V line of the speaker circuit (→ chapter 6.1, page 11). This will cause a short circuit on the 100-V line when activating the remote tapping mode.
- Do only use appropriate cables and connectors (→ chapter 6.2, page 11).
- Never kink or jam cables.
- Do only connect the device to appropriate power sources.
- Be aware of exposed electrical connections.

Electronic Components

- Do not open or remove the housing.
- Do not insert objects through or into the apertures and the electric contacts of the device.

Mounting, Connection and Commissioning

- Always isolate the device from power supply prior to carrying out mounting, connection and commissioning tasks.

Qualified Staff

- To ensure safe operation and safe use of the device, only qualified staff trained in electrical engineering is allowed to carry out any type of work.
- Qualified staff must have thoroughly read and understood this operating manual including the chapter on safety and the safety messages.

Terminal/Fuse Blocks and Cables

Unauthorized terminal/fuse blocks and cables can cause fires or electrical shocks as well as affect the correct operation of the device.

- Do only use terminal/fuse blocks and cables authorized by INDUSTRONIC.
- Thoroughly read and always observe the safety messages and technical data of the terminal/fuse blocks and cables.

Cleaning

- Do only clean the device with a dry cloth. Do not use detergents.

4 Product Description

4.1 Intended Use

The Addressable Speaker Control Module *8 XASC 001* allows the remote tapping of 100-V speakers. Up to 8 amplifier channels or speaker circuits can be tapped remotely via the INTRON-X Service Tool software.

An Addressable Speaker Romote Electronics 1 ASRE 001 is required at each speaker location.

Use the Addressable Speaker Control Module only under the operating conditions described in this operating manual (→ chapter 4.3, page 9). You are not permitted to use it for other purposes.

Intended use also includes observing the operating manual, the safety messages as well as all other applicable documents (→ chapter 2.4, page 6).

4.2 Non-intended Use

The Addressable Speaker Control Module *8 XASC 001* must not be used in potentially explosive environments and never be exposed to operating conditions which differ from those specified in this document.

4.3 Technical Data

Mechanical Data	
Mounting	19" rack mounting
Width x height x depth	483 mm x 44 mm x 300 mm (19.02" x 1.73" x 11.81")
Weight	Approx. 3 kg (approx. 6.61 lbs)

Power Consumption (XD1)	
Idle state	5 W
Maximum	50 W

Input/Output/Loopbacks for Speaker Circuits (XG1 - XG8)	
Quantity	8

DC Power Supply (XD1)	
Power supply	48 V DC

Network Interfaces (XF1, XF2)	
Quantity	2 x RJ45
Type	10Base-T/100Base-TX Ethernet, IEEE 802.3
Pre-conditions	IPv4 network Support of TCP protocols Quality of Service (QoS) Ideal latency value < 20 ms (max. 50 ms) Jitter: max. 10 ms 200 kBit/s basic bandwidth

Service Interface (SVC)	
Quantity	1 x Mini-USB
Environmental Requirements and Standards	
Ambient temperature during operation	-15 °C to +55 °C (+5 °F to +131 °F)
Storage temperature	-25 °C to +70 °C (-13 °F to +158 °F)
Relative humidity (non-condensing)	Max. 95 %
Degree of protection	IP20
Vibration resistance	2 Hz to 13.2 Hz, +/-1.5 mm, 13.2 Hz to 200 Hz, 1 g
Operating altitude	Max. 2,000 m (6,562 ft) above sea level
Pollution degree	2 (according to EN 62368-1)
Electrical safety	EN 62368-1
EMC	EN 61000-6-2, EN 61000-6-4, EN 55032 Class B, EN 55035, aEN 50130-4

5 Mounting

1. Insert the cage nuts at the desired installation position inside the rack.
2. Position the Addressable Speaker Control Module inside the rack and screw it tight (→ Fig. 6-1).

Fig. 5-1: Screwing to the rack

✓ You mounted the Addressable Speaker Control Module into the rack.

6 Connection

6.1 Safety

DANGER

Electrical hazard!

Coming into contact with live parts can cause injuries.

- Isolate the module from power supply prior to carrying out any electrical installation work. Keep it isolated for the duration of the work.
- Only qualified staff trained in electrical engineering is allowed to carry out electrical installation work.

CAUTION

Damage to the device!

Inappropriate power supply units or cables can damage the module.

- Do only use appropriate power supply units and cables (→ chapter 6.2, page 11).
- Do never use force when inserting a plug.
- For plugs with locking mechanism always release the locking mechanism before pulling out the plug.

CAUTION

Damage to the speaker!

The connection of 100-V speakers without DC protection will cause a short circuit on the 100-V line when activating remote tapping. This may cause damage to the speaker´s transformer.

- Do not connect speakers without DC protection directly to the 100-V line of the speaker circuit.
- Ensure that an appropriate DC protection or a 1 ASRE 001 remote electronics is always used (→ chapter 6.4.1, page 13).

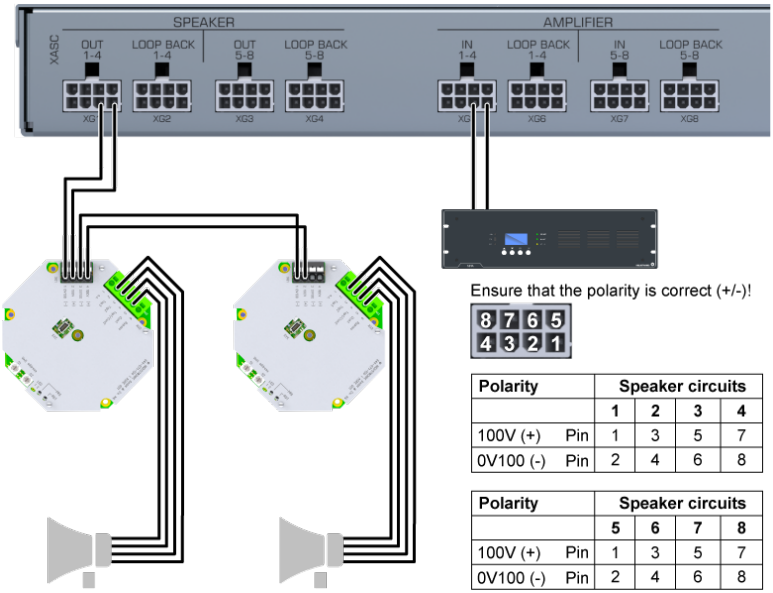
6.2 Connection Examples

You can connect up to 8 speaker circuits in line (→ chapter 6.5.1, page 16) or loop (→ chapter 6.5.2, page 17) to one Addressable Speaker Control Module. Up to 40 addressable speakers per speaker circuit are possible.

The speakers can be connected in line (→ chapter 6.6.1, page 18) or loop (→ chapter 6.6.2, page 19).

The following figures show an example for line cabling (→ Fig. 6-1) and loop cabling (→ Fig. 6-2).

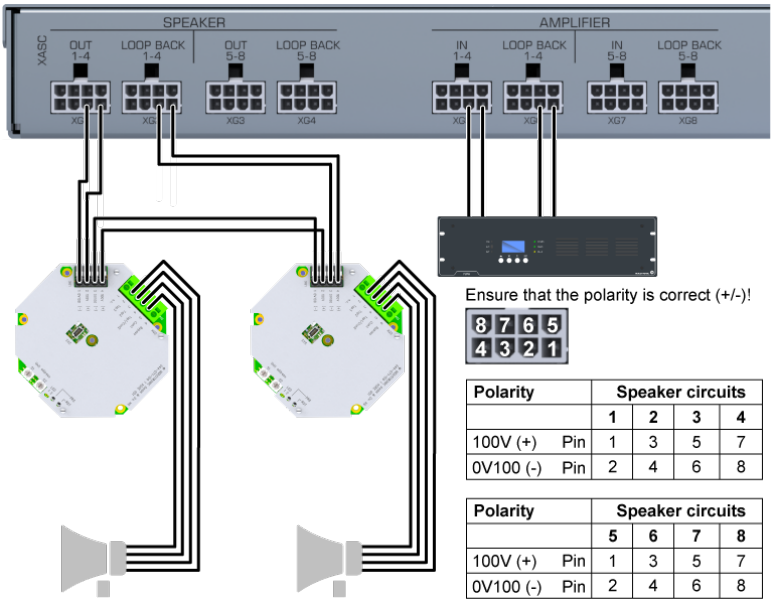
Your project-specific setup may differ from the examples (→ chapter 2.4, page 6).



Polarity		Speaker circuits			
		1	2	3	4
100V (+)	Pin	1	3	5	7
0V100 (-)	Pin	2	4	6	8

Polarity		Speaker circuits			
		5	6	7	8
100V (+)	Pin	1	3	5	7
0V100 (-)	Pin	2	4	6	8

Fig. 6-1: Example for line cabling with cascaded remote electronics



Polarity		Speaker circuits			
		1	2	3	4
100V (+)	Pin	1	3	5	7
0V100 (-)	Pin	2	4	6	8

Polarity		Speaker circuits			
		5	6	7	8
100V (+)	Pin	1	3	5	7
0V100 (-)	Pin	2	4	6	8

Fig. 6-2: Example for loop cabling with cascaded remote electronics

6.3 Cables To Be Used

- To connect the module do only use appropriate cables supplied by INDUSTRONIC.
- Install and secure all cables so that there is no impermissible strain on the cables and connectors.
- Also observe the INDUSTRONIC Cabling Guidelines (GDL-330-001-403).

2 XCBL 421 1.5 m

Power supply cable for the Addressable Speaker Control module 8 XASC 001, 2 poles, 1.5 m, 0.5 mm^2, bending radius 8 mm (0.31")

Further cable lengths available upon request.

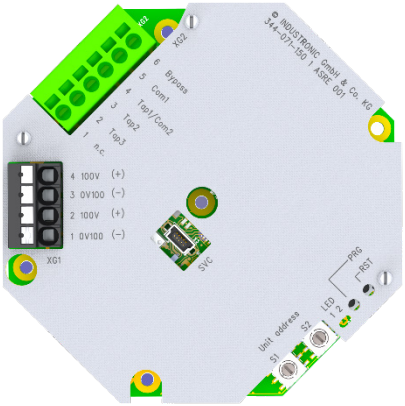
6.4 Terminal Assignment

6.4.1 Addressable Speaker Remote Electronics 1 ASRE 001

The Addressable Speaker Remote Electronics 1 ASRE 001 consists of the electronics board for remote tapping of 100-V speakers (without housing).

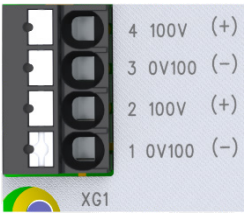
Each remote electronics receives its power and control signals from the centrally installed Addressable Speaker Control Module 8 XASC 001, provided via the standard speaker cable without requiring additional wires for power supply and data transmission.

You can connect one 100-V speaker to one remote electronics.

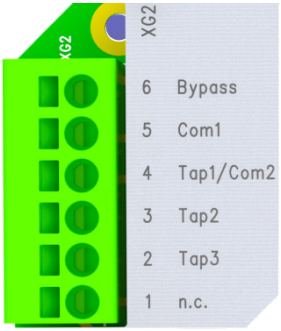


Note

The remote electronics 1 ASRE 001 is not included in the scope of delivery! Type and order number: 344-071-150



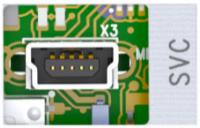
1 and *2* *0V100 (-)* and *100V (+)*	Input from the Addressable Speaker Control Module XASC or input from the predecessor remote electronics ASRE
3 and *4* *0V100 (-)* and *100V (+)*	Daisy chain to the next remote electronics ASRE (for cascading further remote electronics)



Terminal for connecting the speaker for remote tapping

6 Bypass	By-pass for 100V (+)
5 Com1	0V100 (-) common output no. 1
4 Tap1/Com2	100V (+) tapping output no. 1 or 0V100 (-) common output no. 2
3 Tap2	100V (+) tapping output no. 2
2 Tap3	100V (+) tapping output no. 3
1 n.c.	Not connected

Note
Terminal assignment depends on the project-specific requirements and the speaker used.

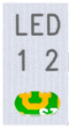


SVC	Service interface *SVC* (Mini USB) for service purposes

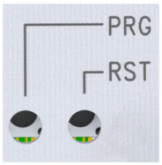
S1	Rotary switch for setting the first digit of the unit address of the ASRE remote electronics Example: *1x*
S2	Rotary switch for setting the second digit of the unit address of the ASRE remote electronics Example: *x5*

Note

The unit address *00* is not allowed! Also, the unit address must be unique within the line/loop.



LED 1	Operating status indication Off: remote electronics is not in operation Green light: remote electronics is in operation
LED 2	Fault indication Off: No fault detected Red light: Fault detected

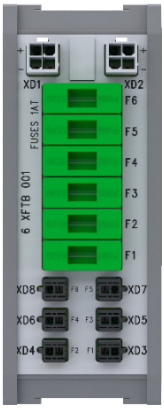


PRG	Button *PRG* (PROGRAM), device reset to factory settings
RST	Button *RST* (RESET), device restart

6.4.2 Fuse Block 6 XFTB 001

Note

The fuse block 6 XFTB 001 is not included in the scope of delivery!
Type and order number: 344-800-100



XD1 and *XD2*	Input/output DC power supply The output can be used, for example, for connecting or cascading further terminal and fuse blocks.
F1 to *F6*	Fuse for power supply of INTRON-X modules (max. 6) Assignment fuse to connector: F1 = XD3 F2 = XD4 F3 = XD5 F4 = XD6 F5 = XD7 F6 = XD8
XD3 to *XD8*	Terminals to connect the power supply of the INTRON-X modules (max. 6)

6.5 Connecting Speaker Circuits

You can connect up to 8 speaker circuits in line (→ chapter 6.5.1, page 16) or loop (→ chapter 6.5.2, page 17) to one Addressable Speaker Control Module.

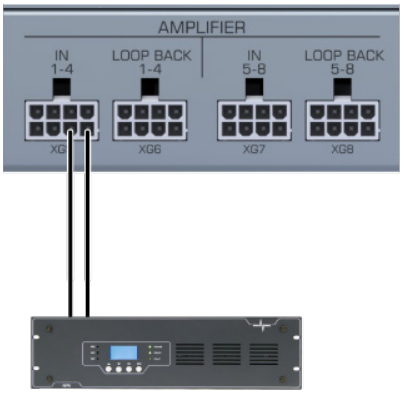
For the connection, select the cable cross-sections according to the distance. Observe the INDUSTROIC Cabling Guidelines supplied with the system documentation (→ GDL-330-001-403).

6.5.1 Line Cabling

The speaker circuits wired as line are connected to the terminal blocks *XG5* (*IN 1-4*) and/or *XG7* (*IN 5-8*).

The maximum voltage at the terminals is 100 V.

1. Connect the incoming cables from the amplifier or zone selector to the terminal *XG5 (IN 1-4)* on the module (→ Fig. 6-1).
   Ensure that the polarity is correct (+/-).



Ensure that the polarity is correct (+/-)!

Polarity		Speaker circuits			
		1	2	3	4
100V (+)	Pin	1	3	5	7
0V100 (-)	Pin	2	4	6	8

Polarity		Speaker circuits			
		5	6	7	8
100V (+)	Pin	1	3	5	7
0V100 (-)	Pin	2	4	6	8

Fig. 6-1: Line cabling of speaker circuits (example)

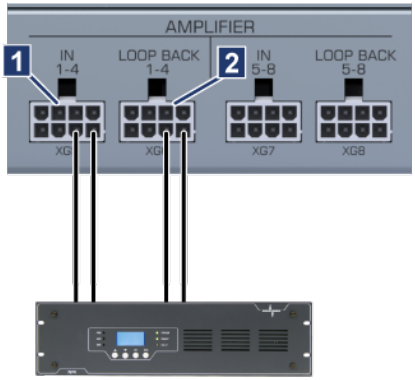
✓ You connected speaker circuits in line to the module.

6.5.2 Loop Cabling

The speaker circuits wired as loop are connected to the terminal blocks *XG5* (*IN 1-4*) and *XG6* (*LOOP BACK 1-4*) as well as *XG7* (*IN 5-8*) and *XG8* (*LOOP BACK 5-8*).

The maximum voltage at the terminals is 100 V.

1. Connect the incoming cables from the amplifier or zone selector to the terminal *XG5 (IN 1-4)* on the module (→ Fig. 6-2/1). Ensure that the polarity is correct (+/-).
2. For the loopback connect the cables from the amplifier to the terminal *XG6* (*LOOP BACK 1-4*) on the module (→ Fig. 6-2/2).



Ensure that the polarity is correct (+/-)!

Polarity		Speaker circuits			
		1	2	3	4
100V (+)	Pin	1	3	5	7
0V100 (-)	Pin	2	4	6	8

Polarity		Speaker circuits			
		5	6	7	8
100V (+)	Pin	1	3	5	7
0V100 (-)	Pin	2	4	6	8

Fig. 6-2: Loop cabling of speaker circuits (example)

✓ You connected speaker circuits to the module.

6.6 Connecting Speakers

You can connect speakers in line (→ chapter 6.6.1, page 18) or loop (→ chapter 6.6.2, page 19).

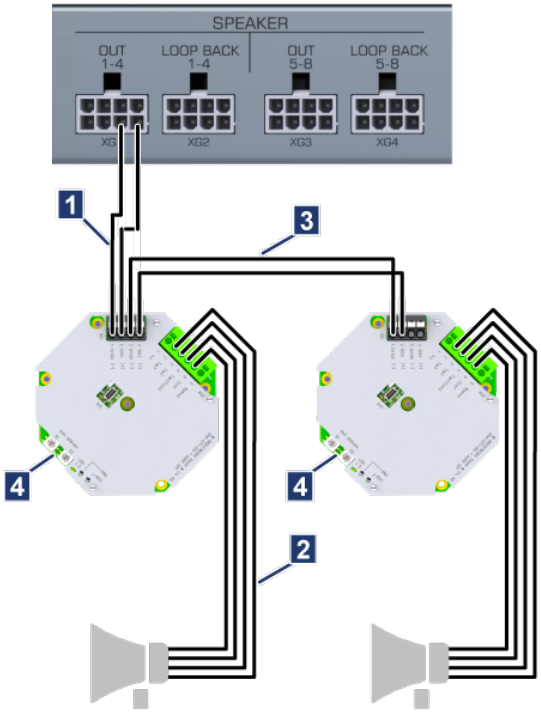
For the connection, select the cable cross-sections according to the distance. Observe the INDUSTROIC Cabling Guidelines supplied with the system documentation (→ GDL-330-001-403).

6.6.1 Line Cabling

The speaker lines are connected to the terminal blocks *XG1* (*OUT 1-4*) and *XG3* (*OUT 5-8*).

The maximum voltage at the terminals is 100 V.

1. Connect the cables into the terminal *XG1 (OUT 1-4)* on the module and into terminal *XG1* on the remote electronics (→ Fig. 6-3/1).
   Ensure that the polarity is correct (+/-).
2. Connect the cables from the speaker to the terminal *XG2* on the remote electronics module (→ Fig. 6-3/2).



Ensure that the polarity is correct (+/-)!

8 7 6 5
4 3 2 1

Polarity		Speaker circuits			
		1	2	3	4
100V (+)	Pin	1	3	5	7
0V100 (-)	Pin	2	4	6	8

Polarity		Speaker circuits			
		5	6	7	8
100V (+)	Pin	1	3	5	7
0V100 (-)	Pin	2	4	6	8

Fig. 6-3: Line cabling of speakers (example)

3. If necessary, connect additional remote electronics (→ Fig. 6-3/3).
4. For each remote electronics, set the correct unit address *S1* and *S2* to ensure that the address is unique within one speaker line (→ Fig. 6-3/4).

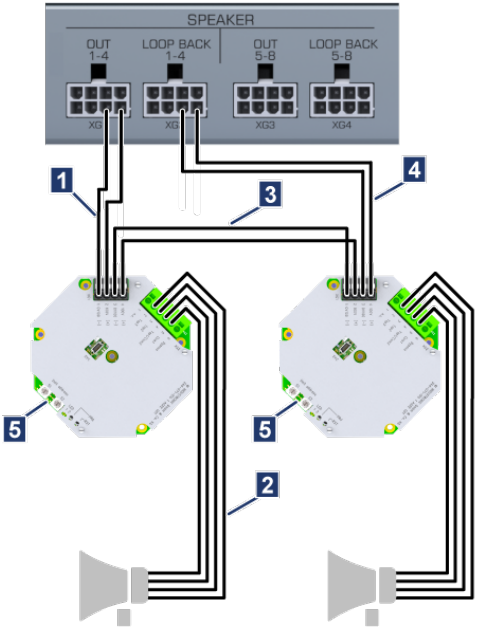
   ✓ You connected a speaker in line to the remote electronics and the module.

6.6.2 Loop Cabling

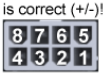
The speaker loops are connected to the terminal blocks *XG1* (*OUT 1-4*) and *XG2* (*LOOP BACK 1-4*) as well as *XG3* (*OUT 5-8*) and *XG4* (*LOOP BACK 5-8*).

The maximum voltage at the terminals is 100 V.

1. Connect the cables into the terminal *XG1 (OUT 1-4)* or *XG3 (OUT 5-8)* on the module and into terminal *XG1* on the remote electronics (→ Fig. 6-4/1). Ensure that the polarity is correct (+/-).
2. Connect the cables from the speaker to the terminal *XG2* on the remote electronics module (→ Fig. 6-4/2).
3. If necessary, connect additional remote electronics (→ Fig. 6-3/3).
4. For the loopback, connect the cables into the terminal *XG1* on the last remote electronics and to the terminal *XG2* (*LOOP BACK 1-4*) or *XG4* (*LOOP BACK 5-8*) on the module (→ Fig. 6-2/4).



Ensure that the polarity is correct (+/-)!



Polarity		Speaker circuits			
		1	2	3	4
100V (+)	Pin	1	3	5	7
0V100 (-)	Pin	2	4	6	8

Polarity		Speaker circuits			
		5	6	7	8
100V (+)	Pin	1	3	5	7
0V100 (-)	Pin	2	4	6	8

Fig. 6-4: Loop cabling of speakers (example)

5. For each remote electronics, set the correct unit address *S1* and *S2* to ensure that the address is unique within in the speaker loop (→ Fig. 6-4/5).

   ✓ You connected a speaker in loop to the remote electronics and the module.

6.7 Connecting the Addressable Speaker Control Module to a Network

The Addressable Speaker Control Module has 2 Ethernet interfaces (*XF1* and *XF2*) for redundant connection to two separate IP subnets.

During normal operation, the module is connected to one IP subnet via the Ethernet interface *XF1*. The second Ethernet interface *XF2* is used for redundant connection to a separate IP subnet independent from *XF1*.

To connect the module to a network, plug in an incoming Ethernet cable with RJ45 connector into the Ethernet interface *XF1* (→ Fig. 6-5/1).

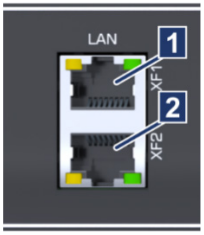


Fig. 6-5: Ethernet interface *LAN* (*XF1* and *XF2*)

For the redundant connection, plug a second incoming Ethernet cable with RJ45 connector into the Ethernet interface *XF2* (→ Fig. 6-5/2).

The maximum cable length from the XASC to the switch is 100 m (109.3 yds).

6.8 Connecting the DC Power Supply

CAUTION

Damage to the device!

The Addressable Speaker Control Module may be damaged when connecting a supply voltage higher than permitted.

- Do not exceed the supply voltage of 48 V DC for the DC voltage input (→ chapter 4.3, page 9).

CAUTION

Damage to the device!

The Addressable Speaker Control Module may be damaged when incorrectly connecting it to a DC power supply.

- Ensure that the polarity (+/-) is correct when connecting the DC power supply or power supply unit.

1. ⚠ **DANGER!** Electrical hazard! Ensure to always isolate the supply lines from power supply prior to carrying out mounting tasks.
   Plug the power supply cable 2 XCBL 421 into the terminal *XD1 (DC INT)* and into the terminal *XD1* on the fuse block XFTB (→ Fig. 6-6/1).

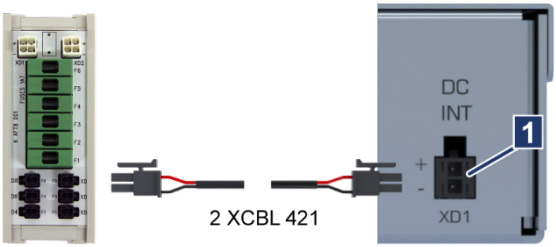


Fig. 6-6: Power supply *XD1 (DC INT)*

2. Switch on the power supply.
   - ▶ The module boots. LED *PWR* shows a green light.
   - ▶ The module is connected to the DC power supply and turned on.
   - ✓ You can now commission the module via the INTRON-X Service Tool (→ chapter 7, page 21).

7 Commissioning

7.1 Installing the INTRON-X Service Tool

Pre-conditions

- Installation file of the INTRON-X Service Tool is available (*.exe). If not, you can download it here:
  https://download.industronic.software/xst
- You have administrator rights and can change the settings of your PC/notebook.

1. Double-click the installation file.
   - ▶ The User Account Control window of Windows® opens and warns you of a program from an unknown publisher.
2. Confirm the prompt with *Yes*.
   - ▶ The installation wizard opens.
3. Follow the instructions of the wizard.
   - ▶ During installation, a shortcut is automatically created in the Windows® Start menu of your PC/notebook (*INTRON-X Service Tool*).
   - ✓ You successfully installed the INTRON-X Service Tool.

7.2 Setting the COM Port of the Addressable Speaker Control Module

- PC/notebook with Windows® operating system.
- USB cable (Mini USB) to connect the module to the PC/notebook.
- The module is connected to the network (→ chapter 6.7, page 20) and to the power supply (→ chapter 6.8, page 20).

1. Power on the PC/notebook.
2. Open the Windows® Device Manager.
   - **2.1.** Press the Windows key + X on the keyboard (+ X).
   - **2.2.** Click on *Device Manager*.
   - **2.3.** Confirm message with *OK*.
   - ▶ The *Device Manager* opens.
3. Expand the section Ports (COM & LPT) (→ Fig. 6-1).

Fig. 7-1: Device Manager > Ports (COM & LPT)

4. Connect the module to the PC/notebook via the *SVC* interface (Mini USB, → Fig. 7-2/1).

Fig. 7-2: SVC interface

   - ▶ The window *Device Manager* is then updated and shows the connected module with COM address as *USB Serial Port (COM4)* (→).

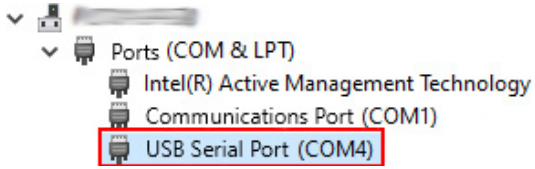


Fig. 7-3: USB Serial Port (COM4)

Note
The COM address shown here is an example and may differ from the one you see.

- ▶ You know now the COM address of the module.
- ✓ You can now add the module to the INTRON-X Service Tool (→ chapter 7.3, page 23).

7.3 Adding the Addressable Speaker Control Module to the INTRON-X Service Tool via Service Interface

- The module is connected to your PC/notebook via the service interface SVC and you know the COM port for the module (→ chapter 7.2, page 22).
- You installed the software INTRON-X Service Tool on your PC/notebook (→ chapter 7.1, page 21).
- The module is connected to the network (→ chapter 6.7, page 20) and to the power supply (→ chapter 6.8, page 20).

1. Start the INTRON-X Service Tool.
2. In the *Components* area, click on *Add*.
   - ▶ Window *Add component* opens.
3. In the *Connection type* select the option *COM address*.
4. Enter the COM address from the window Device Manager (→ chapter 7.2, page 22, step 4, *COM4*).
5. Enter the following default login data:
   User name: `admin`
   Passwortd: `admin`

   Note
   We recommend changing the passwords of the indivual users after commissioning under *Basic Settings* > *User*.
6. Click on *Add*.
   - ▶ The COM address and the status of the module are indicated in the INTRON-X Service Tool.
7. Click on *Open* .
   - ▶ The user interface of the module opens.
   - ✓ You can now define the network settings for the module (→ chapter 7.4, page 24).

7.4 Adjusting the Network Settings

7.4.1 Automatically Obtaining Network Data via DHCP

The Adressable Speaker Control Module is pre-set prior to delivery to automatically obtain its IP address, net mask, and gateway from a DHCP server as soon as it has a connection to the network.

There are no further network settings for the module required.

7.4.2 Manually

Pre-conditions

- The module is connected to the network (→ chapter 6.7, page 20).
- You added the module to the INTRON-X Service Tool and opened the user interface of the module (→ chapter 7.2, page 22).
- If you want to manually define your network settings, you require the relevant network data, e.g. the IP address.

1. Click on *Basic Settings*.
2. Activate the *Edit mode*  .
3. For Interface redundancy, select the appropriate setting (*Disabled* or *Dual Homed*).
4. Ensure that DHCP is disabled under *Network* > *DHCP*  .
5. Successively enter the desired data into the fields *Default gateway*, *IP address* and *Netmask*.
6. Click on *Save*.
   - ▶ The Module must be restarted.
7. Click on *Restart*.
   - ▶ The module restarts.
   - ✓ You defined the network settings.

Note

You can now access the module at any time via the IP address in the INTRON-X Service Tool and make your settings. You don't require the service interface any longer, provided that the PC/notebook and the module are connected to the same network.

7.5 Configuring the Remote Tapping of the Connected Speakers

Pre-conditions

- You added the module to the INTRON-X Service Tool and opened the user interface of the module (→ chapter 7.2, page 22).

- You connected all speaker circuits required (→ chapter 6.5, page 16 and chapter 6.6, page 18).

1. Click on *Remote Tapping* > *Profiles*.
2. Activate the *Edit mode* .
3. Click on .
   - Window *Create Profile* opens.
4. Enter the desired *Speaker Type*, *Profile Number*, *Display Text*, *Tapping Type* and the *Outuput Power* of the speaker.

   To add further tapping values click on *Add new tapping* next to *Output Power (W)*.

   Note
   For the *Output Power (W)* see the tapping values stated in the data sheet of the speaker.

5. Click on *Create*.
   - The remote tapping profile is created.
   - You can now use the profile(s) to remotely adjust the output power of your connected speakers.

   Note
   To create more profiles repeat the steps 3 to 5.

6. In the menu bar, click on *Remote Tapping*.
7. Click on .
   - Window *Create Speaker Circuit* opens.
8. Enter the desired *Name* and the *Relative Address* of the speaker circuit and select the *Circuit Type* (*LINE* or *LOOP*).
9. Click on *Create*.
   - The speaker circuit is created (→ Fig. 7-4).

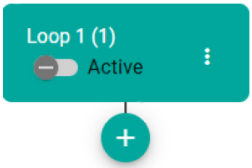


Fig. 7-4: Speaker circuit *Loop 1 (1)* in the INTRON-X Service Tool (Example)

- You can now add and configure the remote electronics 1 ASRE 001.

10. Under the speaker circuit click on ⊕ *Create new ASRU* (→ Fig. 7-5/1).

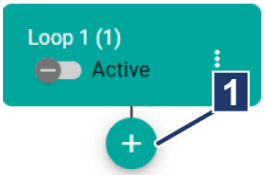


Fig. 7-5: Speaker circuit *Loop 1 (1)* > Create new ASRU

- ▶ Window *Create ASRU* opens.

11. Enter the desired *Name* and *Unit Address* of the remote electronics and select the *Profile Number* as well as the physical *Position Number* within the circuit (→ chapter 6.4.1, page 13).

> **Note**
> In the *Profile Number* drop down menu you find the remote tapping profile(s), which you defined in step 4.

12. Click on *Create*.
    - ▶ The remote electronics is created.
13. On the desired remote electronics click on ⋮ (→ Fig. 7-6/1) and select *Set tapping*.

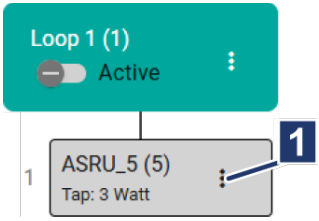


Fig. 7-6: Select *Set tapping*

- ▶ Window *Edit ASRU* opens.

14. Change the tapping value and click on *Send*.
    - ▶ The software now applies the new tapping value to the speaker.

> **Note**
> To create more remote electronics repeat the steps 10 to 14.

- ▶ You created one or more speaker circuits with the corresponding remote electronics.
- ✓ You can now use the remote tapping function to remotely adjust the output power of your connected speakers (→ chapter 7.6, page 27).

7.6 Using the Remote Tapping

Note

Before any audio signals can be output, please ensure that all speakers are properly connected and that the configuration for the remote electronics has been applied correctly.

To do this, follow the steps below.

Pre-conditions

- You added the module to the INTRON-X Service Tool and opened the user interface of the module (→ chapter 7.2, page 22).
- You configured remote tapping for the connected speakers (→ chapter 7.5, page 24).

1. Click on *Remote Tapping*.
2. Activate the *Edit mode* .
3. Activate the remote tapping mode of the speaker circuit by clicking on the slide bar next to *Active* (→ Fig. 7-7/1).

Note

This step applies the configuration from the Addressable Speaker Control Module to all remote electronics of the respective speaker circuit.

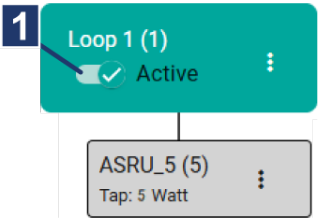


Fig. 7-7: Activate the remote tapping

4. Repeat step 3 for all configured speaker circuits.
   ✓ You applied the configuration to all remote electronics of the Addressable Speaker Control Module.

7.7 Resetting Addressable Speaker Control Module to Factory Settings

Any settings you made can be reset to factory settings if required.

1. Use the end of a straightened paper clip to carefully press the *PRG* button. Keep it pressed for the entire boot process (→ Fig. 7-8/1).

Fig. 7-8: *PRG* button

- ▶ The module reboots.
- ▶ After approx. 5 seconds all LEDs start to flash. As soon as the LEDs go off again, the boot process is completed and the factory settings are reset.

✓ You reset the Addressable Speaker Control Module to factory settings.

8 INTRON-X Service Tool

8.1 User Interface Layout

After commissioning the module (→ chapter 7, page 21), the INTRON-X Service Tool provides different types of information and can be used to make further settings (e.g. restart the I/O module, change passwort).

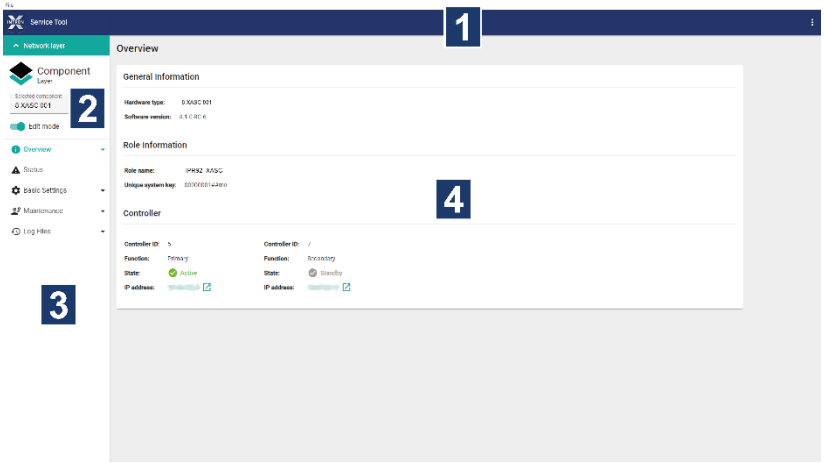
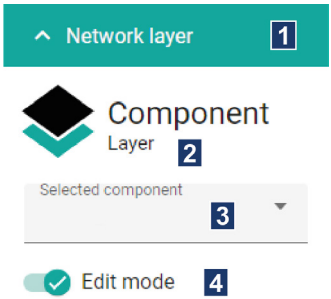


Fig. 8-1: INTRON-X Service Tool

1	Header with the name and type of the selected component	
	File	Opens a menu to reload and exit the INTRON-X Service Tool
	?	Opens the integrated help (→ chapter 8.9, page 31).

	Opens a menu where you can display the INTRON-X Service Tool in full-screen mode, change the language, or display contact and license information.
2	Layer selection (→ chapter 8.2, page 29)
3	Navigation menu with submenus (→ chapter 8.4, page 30 to chapter 8.8, page 31)
4	Input/display area

8.2 Layer Selection



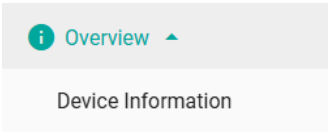
The layer selection provides the following options and information.

- **1** Return to the previous layer, in this example to the *Network Layer*.

> **Note**
> The *Network Layer* is not displayed here. All components that can be accessed via the Service Tool are listed there. Clicking the button next to a component opens the *Component Layer*.

- **2** Displays the currently selected layer, in this example the *Component Layer*.
- **3** Here, you can select the desired component and the corresponding details are displayed in the input/display area.
- **4** Enables ( ) and disables ( ) the edit mode for the currently selected component

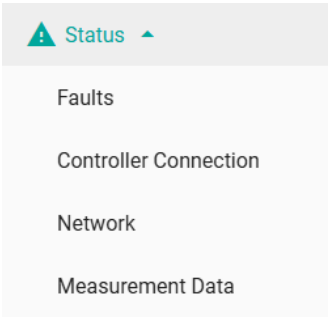
8.3 *Overview* Menu



The *Overview* menu displays device information such as hardware and software version.

It also shows which device features are enabled (not available for each component).

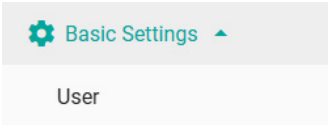
8.4 *Status* Menu



The *Status* menu displays different information depending on the component, e.g.

- Possible error states,
- Configured network interfaces, and
- Measurement data

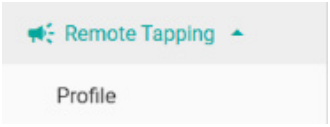
8.5 *Basic Settings* Menu



In the *Basic settings menu*, you can e.g. perform following actions, e.g.

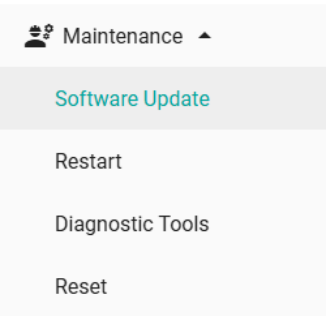
- Network settings, e.g. enter the IP address of the component (→ chapter 7.4, page 24),
- Download the basic settings as *.xml or *.bin file,
- Upload the basic settings as *.xml or *.bin file, and
- Change passwords.

8.6 *Remote Tapping* Menu



In the *Remote Tapping* menu, you can configure remote tapping values (→ chapter 7.5, page 24)

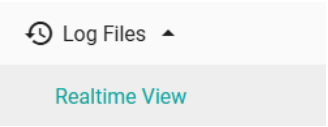
8.7 *Maintenance* Menu



In the *Maintenance* menu, you can e.g. perform the following actions:

- Update the operating software of the component (*.idu or *.bpu file),
- Restart the component, and
- Reset various settings (→ chapter 7.6, page 27).

8.8 *Log Files* Menu



In the *Log Files* menu, you can download the support and status files (both with extension *.tgz) depending on the component. Furthermore, it also displays log data in real time.

8.9 Displaying the Integrated Help

The INTRON-X Service Tool has an integrated help that displays information and descriptions for each menu item.

To access the integrated help, click on the question mark icons or .

Document History and Imprint

Revision	Author		Approved		Changes
	Date	Name	Date	Name	
01	27.11.2025	M. Holzhäuser	28.11.2025	O. Girg, R. Leuthe	Initial

INDUSTRONIC®
Industrie-Electronic GmbH & Co. KG
Carl-Jacob-Kolb-Weg 1
97877 Wertheim / Germany

Tel.: +49 9342 871-0
Fax: +49 9342 871-565

info@industronic.de
www.industronic.com