

vhfBridge User manual

Updated August 8, 2023



vhfBridge is a module for connecting Ajax security systems to third-party VHF transmitters. It provides 8 transistor outputs for connection to third-party VHF transmitters.

The device is powered from 100–240 V~ mains and can be operated from a 12 V_{DC} backup battery.

vhfBridge operates as part of the Ajax security system and connects to the hub via the Jeweller secure radio communication protocol. The hub communication range is **up to 1,800 meters** without obstacles. Supplied in two configurations: with a casing and without it.

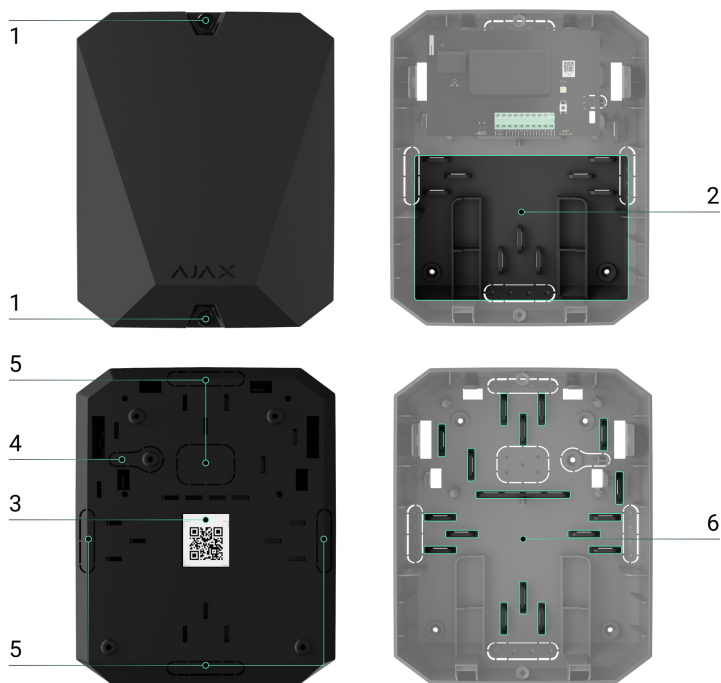
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1. Screws securing the casing lid. Unscrew with a bundled hexagon key (Ø 4 mm).
2. Space for a 12 V_{DC} backup battery.



Battery not included with vhfBridge set.

3. QR code with the device ID. It is used to pair the device with the Ajax security system.
4. Perforated part of the casing. Necessary for tamper triggering in case of any attempt to detach the device from the surface.
5. Perforated parts of the casing for cable output.



The presence of the casing depends on the vhfBridge package. The device is

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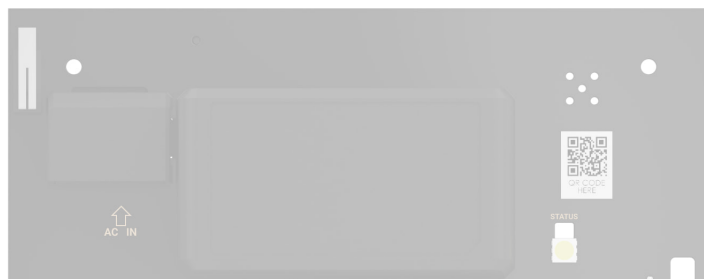
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1. Terminals for connecting a 12 V \equiv backup battery.
2. 100–240 V \sim power supply input.
3. Tamper button. Signals if vhfBridge casing lid is removed.
4. Power button.
5. LED indicator.
6. QR code with the device ID. It is used to pair the device with the Ajax security system.
7. Terminals for connecting a VHF transmitter.

vhfBridge terminals



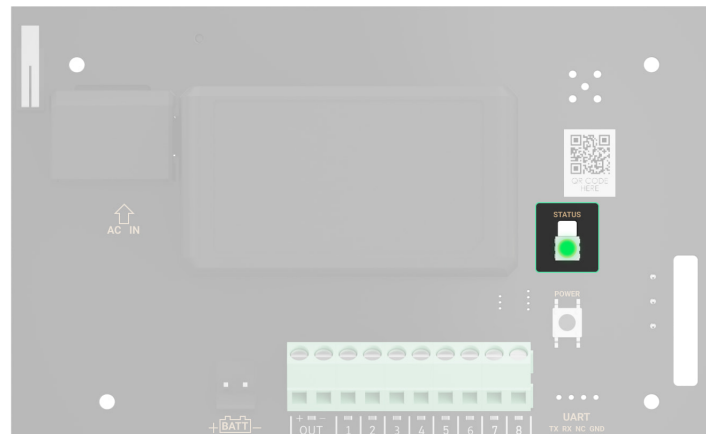
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- OUT – power output for the 12 V \Rightarrow VHF transmitter (maximum output current is 2 A).
- OUT 1...8 – vhfBridge outputs for connecting a VHF transmitter.

LED indication



vhfBridge LED indicator may light up white, red, or green, depending on the status of the device.

Please note that the LED indicator is not visible when the casing lid is closed. The LED indicator is used at the stage of vhfBridge connecting and configuring. Later on, the state of the device can be monitored in the Ajax app.

LED indication	Event	Note
Lights up white.	Connection with the hub is established, external power supply is connected.	
Lights up red	There is no connection with the hub, external power supply	For example, the hub is turned off or vhfBridge is outside the

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Blinks red once per second.	vhfBridge is not assigned to a hub.	
Lights up for a second once every 10 seconds.	No external power supply is connected to vhfBridge.	<p>The colour of the indication depends on the status of connection with the hub:</p> <ul style="list-style-type: none"> lights up white if there is connection with the hub; lights up red if there is no connection with the hub.
During an alarm, gradually lights up and goes out once every 10 seconds.	No external power supply and discharged external battery of vhfBridge.	<p>The colour of the indication depends on the status of connection with the hub:</p> <ul style="list-style-type: none"> lights up white if there is connection with the hub; lights up red if there is no connection with the hub.

LED indication of output status

LED indication	Output status in case of alarm
High potential output (positive trip).	Lights up green.
Low potential output (negative trip).	Goes out.

Operating principle

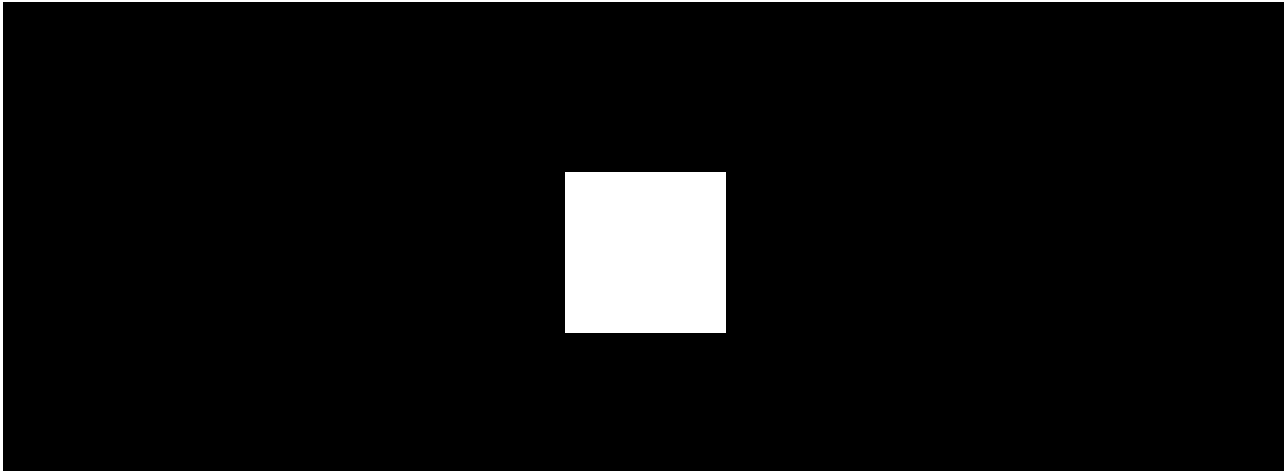
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security company not only through SIA (DC-09), ADEMCO 685, SurGard (Contact ID), and other proprietary protocols but also using vhfBridge.

The transponder receives information about alarms and events from the hub via the Jeweller radio channel. Then, vhfBridge transmits it to a third-party VHF transmitter via wires. The VHF transmitter, in turn, transmits all events and alarms to the CMS via a radio channel.



00:00

00:12

Events can be transmitted to the CMS via the Internet and vhfBridge in parallel. Transmission via the Internet works as the main channel because of greater reliability and informativity. The transmitted events may contain the zone number of the triggered detector, group number, user number, and other data.

vhfBridge works as a backup communication channel duplicating all events transmitted via the Internet. The delivery speed of events and alarms in both cases does not exceed 1 second.

An example of the algorithm of actions in case of an alarm from a MotionProtect motion detector:

1. MotionProtect has detected an alarm.

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5. The VHF transmitter receives the alarm and transmits it to the radio receiver on the CMS side via the radio channel.
6. The radio receiver receives the alarm and transmits it to the CMS software.
7. The CMS receives and processes the alarm.

Output types

vhfBridge has 8 potential outputs for connection to a VHF transmitter. There are two types of outputs:

1. High potential output (positive trip).
2. Low potential output (negative trip).



The high-potential output does not supply voltage in the normal state. As soon as an alarm or event occurs, the output supplies a voltage of 12–14 V_{DC}. The low-potential output works the other way around. In the normal state, the voltage is maintained at 12–14 V_{DC}, and when an alarm or event occurs, it drops to 0 V.

The vhfBridge output type and alarm pulse duration are configurable in Ajax apps.

VHF transmitter power supply

vhfBridge can supply a third-party VHF transmitter with 12 V_{DC} power (maximum output current is 2 A).

If the VHF transmitter has a current consumption of more than 2 A, it can be powered by the vhfBridge battery. In this case, disable battery charge tracking in the vhfBridge settings so that the system users do not receive notifications.

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SIA DC-09 (ADM-CID), ADEMCO 685, and other proprietary protocols. The list of supported protocols is [available here](#).

Which CMSs can the Ajax security system be connected to

When an alarm is received, the monitoring station operator of the security company knows what happened and where the rapid response unit has to be sent. All Ajax devices are addressable, so events, the device type, its assigned name and room can be transmitted to the PRO Desktop and the CMS. The list of transmitted parameters may differ depending on the type of the CMS and the selected communication protocol.



You can find vhfBridge ID and zone number in the [States](#) in Ajax apps. The device number corresponds to the loop (zone) number.

Adding to the system



vhfBridge doesn't work with Hub, ocBridge Plus, uartBridge and third-party security central units. The device can only be added and configured through the Ajax PRO app by a user with administrator rights.

Before adding a device


1. Install the [Ajax PRO app](#). Create [an account](#). Add a hub to the app and create at least one virtual room.
2. Check that the hub is on and has access to the Internet: via Ethernet cable, Wi-Fi, and/or mobile network. You can do this in the Ajax app or by checking the hub logo on the faceplate. It should light up white or green if the hub is

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To connect vhfBridge

1. Open the Ajax app. If your account has access to multiple hubs, select the one to which you want to add vhfBridge.
2. Go to the **Devices**  menu and click **Add Device**.
3. Name the transponder, scan or enter the QR code manually (located on the device casing and packaging), and select a room and a group (if the group mode is activated).
4. Click **Add** – the countdown will begin.
5. Switch on vhfBridge by holding the power button for 3 seconds. Keep in mind that the hub connection request is only sent when the integration module is turning on.



Please note that to find and pair the device, the transponder should be located within the hub's radio communication range (on the same secured premises).

If the connection has failed, disconnect vhfBridge for 5 seconds and try again. If the transponder has already been assigned to another hub, turn off vhfBridge and then follow the standard addition procedure.

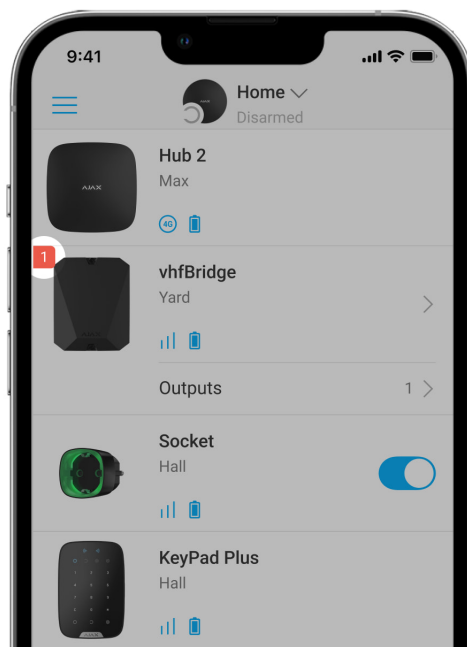
The connected transponder will appear in the list of hub devices in the app. Device status updates depend on [Jeweller](#) settings. The default status update period in the app is 36 seconds.

Malfunction counter

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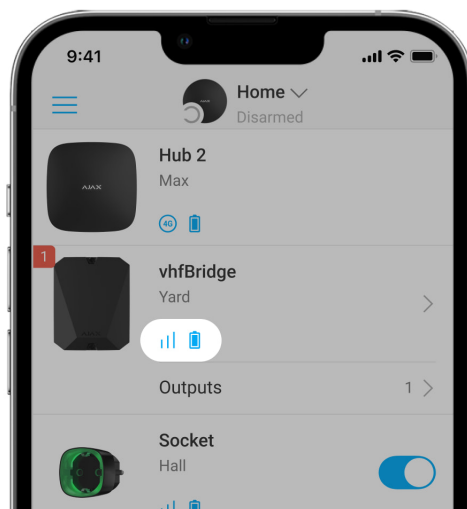




When a vhfBridge malfunction is detected (e.g., no external power), the Ajax app will display a red icon with a number in the upper left corner of the device icon. This number indicates the number of malfunctions.

All malfunctions can be seen in the transponder states. Fields with malfunctions will be highlighted in red.






Icons



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Icon	Meaning
	Jeweller Signal Strength. Displays the signal strength between the hub and vhfBridge. Recommended value is 2–3 bars.
	The charge level of the battery connected to vhfBridge.
	Is displayed when vhfBridge is operating via a <u>radio signal range extender</u> .
	vhfBridge is disabled. Learn more
	vhfBridge tamper triggering events are disabled. Learn more

States

States can be found in the Ajax app:

1. Go to the **Devices**  tab.
2. Select vhfBridge from the list.

Parameter	Meaning
	Click  to open the list of vhfBridge

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	Recommended value is 2–3 bars.
Connection via Jeweller	<p>Connection status between the hub and vhfBridge:</p> <ul style="list-style-type: none"> • Online – the device is connected. • Offline – the device is not connected.
Battery Charge	<p>Battery charge level of the device. Displayed as a percentage.</p> <p><u>How battery charge is displayed in Ajax apps</u></p> <p>Also, this field can display the battery status:</p> <ul style="list-style-type: none"> • Charging – the battery is charging. • Error – the battery has been charging for more than 40 hours.
Lid	<p>The status of tampers that respond to detachment or violation of the integrity of the casing.</p> <p><u>What is tamper</u></p>
External Power	<p>The presence of the 100–240 V~ external power supply:</p> <ul style="list-style-type: none"> • Connected – the external power is connected. • Disconnected – the external power is disconnected.

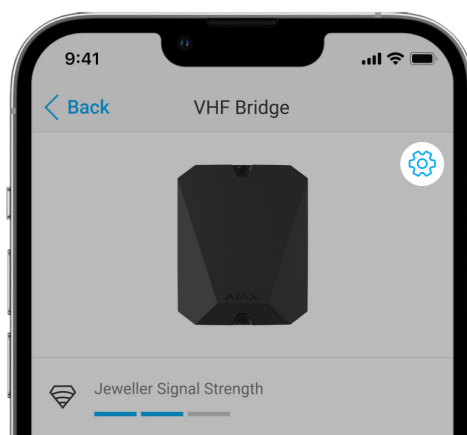
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	<u>range extender</u> .
Permanent Deactivation	<p>Shows the status of the device permanent deactivation function:</p> <ul style="list-style-type: none"> • No – the device operates in normal mode and transmits all events. • Lid only – the hub admin disabled notifications about tamper alarms. • Entirely – the device is completely excluded from the system operation by the hub admin. The device does not follow system commands and does not report alarms or other events.
Firmware	vhfBridge firmware version.
Device ID	vhfBridge ID/serial number. Also located on the device box, its board, and the casing.
Device No.	Device loop (zone) number.



vhfBridge settings



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1. Go to the **Devices**  tab.
2. Select vhfBridge from the list.
3. Go to **Settings** by clicking the icon  in the upper right corner.
4. Set the parameters.
5. Click **Back** to save the new settings.



Please note that after editing the settings, you should click the **Back** button to save them.

Configuration	Meaning
Name	<p>vhfBridge name. Displayed in the text of SMS and notifications in the event feed.</p> <p>To change the device name, click on the pencil icon.</p> <p>The name can contain up to 12 Cyrillic characters or up to 24 Latin characters.</p>
Room	<p>Selecting the virtual room to which vhfBridge is assigned.</p> <p>The room name is displayed in the text of SMS and notifications in the event feed.</p>
	<p>Set up the battery charge duration.</p> <p>When this option is enabled, the system will send a malfunction notification if the battery connected to vhfBridge has been charging more</p>

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	The default value is 5 seconds.
Jeweller Signal Strength Test	<p>Switches vhfBridge to the Jeweller signal strength test mode.</p> <p>The test allows you to check the signal strength between the hub and vhfBridge and determine the optimal installation location.</p> <p><u>What is Jeweller Signal Strength Test?</u></p>
Permanent Deactivation	<p>Allows the user to disable the device without removing it from the system.</p> <p>Three options are available:</p> <ul style="list-style-type: none"> • No – the device operates in normal mode and transmits all events. • Entirely – the device will not execute system commands or participate in automation scenarios, and the system will ignore device alarms and other notifications. • Lid only – the system will ignore notifications about the triggering of the device tamper only. <p><u>Learn more about permanent deactivation of devices</u></p>
User Guide	Opens vhfBridge User Guide in the Ajax app.
Unpair Device	Unpairs vhfBridge, disconnects it from the hub, and deletes its settings.



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- 3rd output – malfunction
- 4th output – tamper
- 5th output – loss of vhfBridge power supply
- 6th output – power loss of the hub
- 7th output – hub battery discharged
- 8th output – loss of communication between the hub and vhfBridge

The settings of outputs can be changed in the Ajax app:






1. Go to the **Devices**  tab.
2. Find vhfBridge in the list of devices.
3. Go to the **Outputs** menu.
4. Find the output in the list and go to its **Settings** by clicking the gear icon .
5. Set the parameters.
6. Click **Back** to save the new settings.

Configuration	Meaning
Type of Event	<p>Selection of the event type to which vhfBridge output reacts.</p> <p>Check the complete list of event types and their icons <u>below</u>.</p>
Connection type	<p>Selection of the output type:</p> <ul style="list-style-type: none"> • High potential output (positive trip).

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Icon	Type of event	Operating mode	Description
	Not assigned	No	Output disabled.
	Intrusion	Pulse	Alarm when motion, opening, and other detectors are triggered.
	Fire	Pulse	Alarm when fire detectors are triggered.
	Auxiliary alarm	Pulse	Alarm when pressing the auxiliary request alert button.
	Panic button	Pulse	Alarm by clicking: <ul style="list-style-type: none"> • <u>DoubleButton</u> • <u>Button</u> in panic button mode

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- The virtual panic button in [Ajax apps](#)

	Any alarm	Pulse	Alarm of any connected detector.
	Malfunction	Pulse	Any malfunction of the connected detectors.
	Transponder external power failure	Bistable	Loss of external 110–240 V~ power supply to vhfBridge transponder.
	Transponder battery low	Bistable	vhfBridge backup battery is discharged.
	Hub external power failure	Bistable	Loss of external 110–240 V~ power supply to the hub.

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	Lid	Pulse	Triggering of tamper of any device in the system.
	Security mode change	Bistable	Changing the security mode of an object or group.
	Confirmed intrusion alarm	Pulse	Confirmed alarm according to PD 6662:2017 .
	Confirmed hold-up alarm	Pulse	Confirmed hold-up device alarm according to PD 6662:2017 .
	Hub-transponder connection loss	Bistable	Loss of vhfBridge connection with the hub / radio signal range extender via Jeweller channel.

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Connecting VHF transmitter to vhfBridge

List of recommended VHF transmitters

- Hawk VHF Alarm Transmitter (FSK Electronics)
- TX750C (RDC)
- TR-41 (Puper)



vhfBridge can be connected to any VHF transmitter with relay inputs. Connection via UART, RS-485, and other interfaces is not supported.

How to connect a VHF transmitter to vhfBridge



When connecting the VHF transmitter, do not twist the wires together, but solder them. The ends of the VHF transmitter wires, which will be inserted into the vhfBridge terminals should be tinned or crimped with a special sleeve.

1. Turn off the vhfBridge power (if power was connected).
2. Turn off vhfBridge.
3. Select vhfBridge outputs to which you want to connect the VHF transmitter.
4. Pull the VHF transmitter wires into the vhfBridge casing through the holes.

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6. Fasten the cable securely to the vhfBridge terminals using a straight screwdriver (slot PL 3.0).
7. Connect the power to the VHF transmitter.





If a VHF transmitter requires 12 V power to operate, it can be connected to the power terminals of the corresponding vhfBridge zone. Do not connect the external power supply to the transmitter power terminals, as this may damage the device.

8. Connect power to vhfBridge.
9. Turn on vhfBridge.

vhfBridge functionality testing

Integration module functionality tests do not start immediately but not later than over a single “hub – detector” polling interval (36 seconds with standard hub settings). You can change the polling period of devices in the **Jeweller** menu of the hub settings.

Tests are available in the device settings menu:

1. Sign in to the Ajax app.
2. Go to the **Devices** menu .
3. Select vhfBridge.
4. Go to **Settings** by clicking on the gear icon .

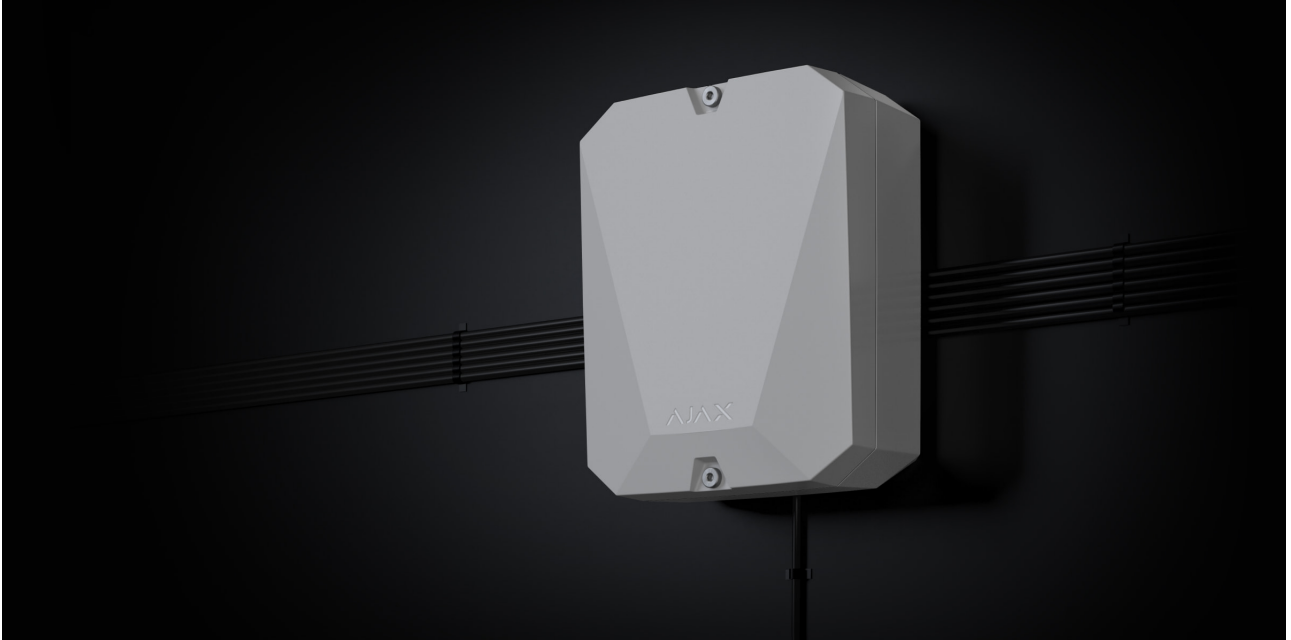
Available tests:

- **Jeweller Signal Strength Test**

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The placement of vhfBridge determines its distance from the hub and the presence of obstacles between them that impede the passage of the radio signal: walls, inter-floor constructions, or large-sized objects located in the room.



Be sure to check the signal strength at the installation site. If the signal strength is low (a single bar), we cannot guarantee a stable operation of the security system. At the very least, relocate the device as repositioning even by 20 cm can significantly improve signal reception.

If poor or unstable signal strength is still reported after the relocation of the device, use the [radio signal range extender](#).

When choosing the installation location, consider the distance between vhfBridge and the VHF transmitter: the cable length should be sufficient for connection.



The minimum distance between vhfBridge and the radio transmitter is 2 meters and the

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requirements can be found in the manual or from the customer service of the VHF transmitter manufacturer.

vhfBridge installation



Prior to mounting vhfBridge, ensure that you have selected the optimal location corresponding to these instructions.

The transponder casing should be mounted on a vertical surface. If installed on a horizontal surface, the **tamper** will not work when somebody attempts to dismantle the transponder.

To install vhfBridge:

1. Remove the vhfBridge casing lid by unscrewing the bottom and top screws with the bundled hex wrench.

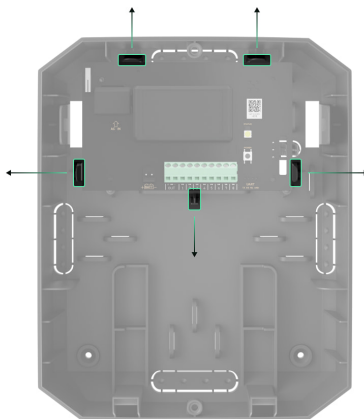


2. Remove the vhfBridge board from the holders by pulling them to the sides.

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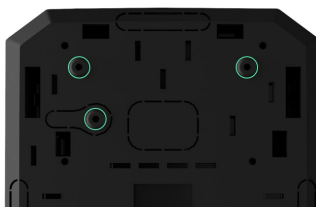




3. Prepare cable openings in advance by carefully breaking out the perforated parts of the casing.



4. Fasten the casing to a vertical surface at the chosen installation location using the bundled screws. When attaching, use all the fixation points on the casing. One of them, in the perforated part of the mount above the tamper, is needed to trigger the tamper on the back of the board in case of an attempt to tear the casing off the surface.

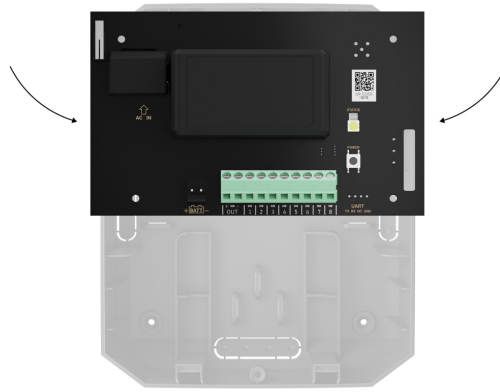


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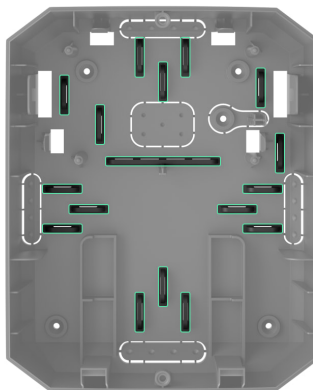


6. Install the vhfBridge board into the casing on the racks.



7. Connect VHF transmitter to vhfBridge. Follow the polarity and connection order of the wires. Securely fasten the conductors to the terminals.

8. Secure the cable with cable ties using special mounts inside the casing.



9. Install a 12 V \equiv backup battery on the special holders in the casing. Please note that vhfBridge cannot be connected to third-party power supply units.

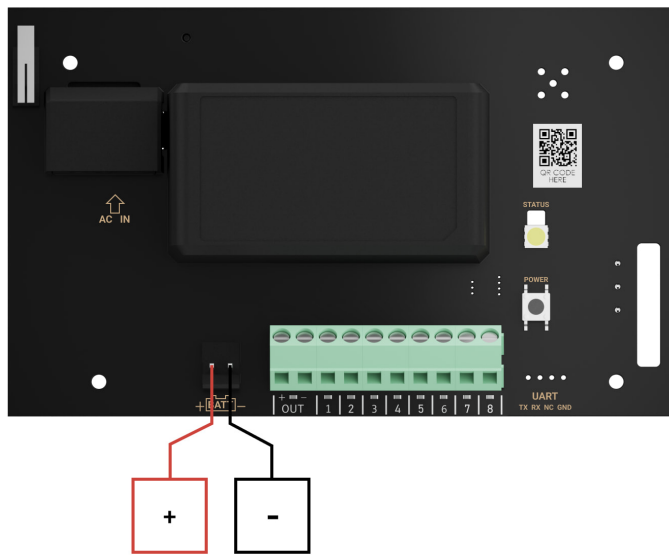


We recommend using a 12 V \equiv battery of 4 or 7 Ah. For such batteries, special holders in the casing are designed. You can also use similar batteries of a different

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11. Connect 100–240 V~ external power supply.
12. Add an integration module to the system.
13. Install the lid on the casing and fix it with the bundled screws.
14. Test vhfBridge and connected VHF transmitter.

Do not install vhfBridge

- Outdoors. Doing so may cause the device to malfunction or not work properly.
- Near metal objects or mirrors (for example, in a metal cabinet). They can shield and attenuate the radio signal.
- Inside premises with temperature and humidity outside the permissible limits. Doing so may cause the device to malfunction or not work properly.
- At a distance less than 1 meter from the hub or range extender. This could result in the loss of connection with the hub.
- At a distance less than 2 meters from the VHF transmitter. The minimum distance is required to avoid signal overlapping.

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Check the functionality of vhfBridge regularly. The optimal frequency of checks is once every three months. Clean the casing from dust, cobwebs, and other contaminants as they emerge. Use a soft dry cloth suitable for equipment care. Do not use any substances containing alcohol, acetone, gasoline, and other active solvents to clean the device.

Technical Specifications

General characteristics	
Colour	White, black
Installation	Indoors
Compatibility with central units	Hub 2, Hub Plus, Hub 2 Plus
Compatibility with range extenders	+
Connections	
Communication protocol	Jeweller: secure two-way communication radio protocol for alarm and event transmission
Communication range	Up to 1,800 meters in a line of sight Learn more
Radio frequency band	868.0–868.6 MHz 868.7–869.2 MHz 863.0–870.0 MHz (depends on the sales region)
Maximum range of radio signal	≤ 25 mW
Integration of third-party VHF transmitters	
Number of potential outputs	8
	High-/low-potential outputs (set by the

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	TR-41 (Puper)
Power supply	
Main power supply	110–240V~, 50/60 Hz
Backup power supply	12V== (backup battery not included)
Supported battery type	12 V battery with a full charge cycle of up to 30 hours. The maximum battery size installed in the casing should be 150 × 64 × 94 mm
Recommended battery type	12V battery with a capacity of 4 or 7 Ah
VHF transmitter power supply	10.5–15.5 V== (maximum output current 2 A)
Anti-sabotage protection	
Tamper	+
Polling interval	12–300 sec (set by the admin in the app)
Radio frequency hopping	+
Protection against spoofing	+
Casing and configuration	
Operating temperature range	From -10°C to +40°C
Operating humidity	Up to 75%
Dimensions	196 × 238 × 100 mm (with a casing) 145 × 89 × 51 mm (without a casing)
Weight	840 g (with a casing) 165 g (without a casing)

Complete set

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5. Casing (depends on configuration).

6. Quick start guide.

Warranty

Warranty for the Limited Liability Company "Ajax Systems Manufacturing" products is valid for 2 years after the purchase.

If the device does not work correctly, you should first contact the support service. In most cases, technical issues can be resolved remotely.

[Warranty obligations](#)

[User Agreement](#)

Contact Technical Support:

- [e-mail](#)
- [Telegram](#)

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