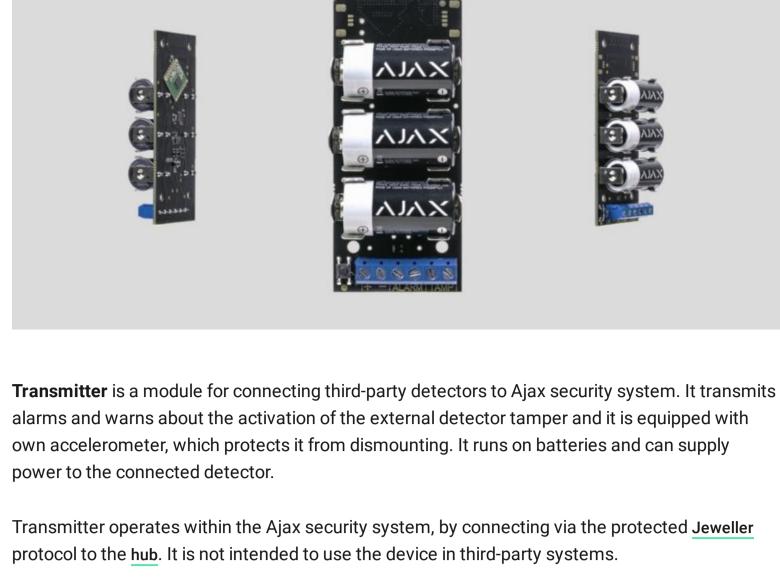
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Updated December 11, 2019

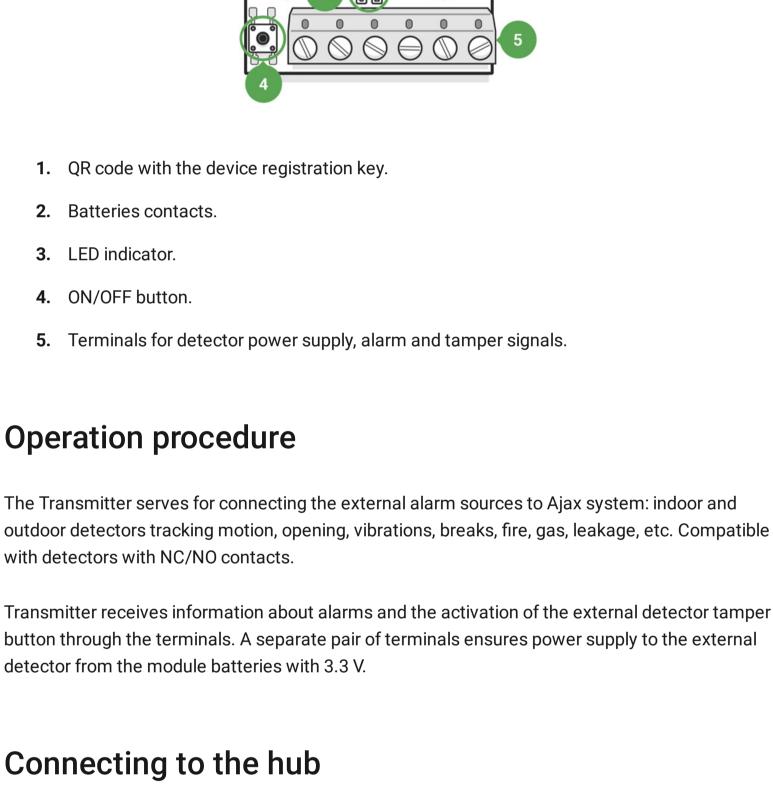
Transmitter User Manual



The Ajax security system is self-sustaining, but the user can connect it to the central monitoring station of a security company.

Functional Elements

Buy integration module Transmitter



- - smartphone. Create an account, add the hub to the application, and create at least one room. 2. Go to the Ajax application.
- 3. Switch on the hub and check the internet connection (via Ethernet cable and/or GSM network).

Only users with administrative privileges can add the device to the hub

4. Switch on the device (by pressing on/off button for 3 seconds).

1. Select the **Add Device** option in the Ajax application.

4. Ensure that the hub is disarmed and does not start updates by checking its status in the

2. Name the device, scan/write manually the QR Code (located on the body and packaging),

How to connect the Transmitter to the hub:

and select the location room.

3. Select Add — the countdown will begin.

mobile application.

For the detection and interfacing to occur, the device should be located within the coverage area

device.

repeat the connection attempt then.

2. Transmitter

Temperature

Signal Strength

Battery Charge

Connection

≺ Back

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Temperature

Signal Strength

Battery Charge

Connection

Delay when entering, sec

Delay when leaving, sec

Delay When Entering, sec

Delay When Leaving, sec

Delays in Night Mode

External Sensor Supply

ALERT WITH A SIREN

Setting

Contact status of the external detector

Type of the external detector

Arm in Night Mode

If alarm detected

First field

Room

Alert If Moved

Lid

Lid

hub settings, with the default value - 36 seconds.

Transmitter

of the wireless network of the hub (at a single protected object).

ш Signal Strength 100% Battery Charge ı Lid Closed

0

~29 °C

ш

100%

Closed

Online

Transmitter

Temperature

Delay When Entering, sec

Delay When Leaving, sec

Ajax Transmitter Firmware 3.53.00, Device ID 0DA222

Signal strength between the hub and the device

Battery level of the device, displayed in increments of 25%

Connection status between the hub and the Transmitter

Connection

and changes gradually

The tamper terminal state

Delay time when entering

Delay time when exiting

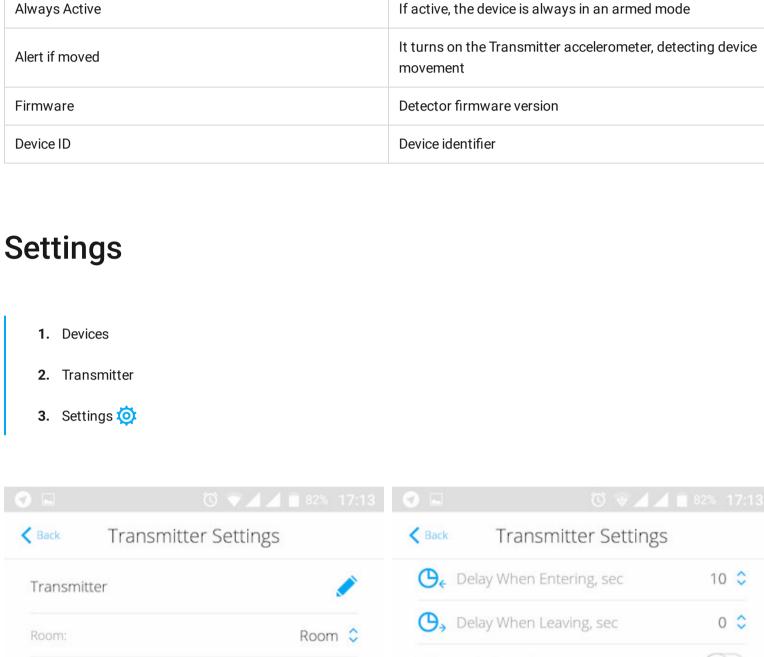
~29 °C

10 sec

Disabled

Online

Parameter Value Temperature of the device. Measured on the processor



Tamper mode Always active

Delay when entering, sec

Delay when leaving, sec

Power supply of the external detector Arm in night mode Activate the siren if an alarm is detected Signal Strength Test **Attenuation Test** User Guide

open.

Set the following parameters in the Transmitter settings:

bistable modes. Always active — this mode should be used if there are any problems in the "Turned off when the hub is disarmed". When the security system is armed, signals from the ALARM terminal are processed no more than once in three minutes in the pulse mode. If the bistable mode is selected, such signals are processed instantly. If the "Always active" operating mode is selected for the module, the external detector is powered only in the "Always active" or the "Turned off when the hub disarmed" mode, regardless of the security system status.

Event

The Module is switched on and registered

The Module is deleted from the list of hub devices

The Module has received alarm/tamper signal

Performance testing

Indication

Registration failed

Batteries are discharged

devices.

obstacles between the devices hindering the radio signal transmission: walls, inserted floors, large-size objects located within the room. Check the signal strength level at the installation location

extender ReX.

+ – power supply output (3.3 V) **ALARM** – alarm terminals

TAMP – tamper terminals

the device

Maintenance and Battery Replacement The device does not require maintenance when mounted in the housing of a wired sensor.

Mode for processing alarm signals from the detector

Capability to power the connected detector

Protection from dismounting

Frequency band

Compatibility

Operating temperature

Complete Set

1. Transmitter

Battery Replacement

Tech Specs

Connecting a detector

Power

Operating humidity **Dimensions** 100 x 39 x 22 mm Weight 74 g

Warranty Warranty for the "AJAX SYSTEMS MANUFACTURING" LIMITED LIABILITY COMPANY products is valid for 2 years after the purchase and does not apply to the pre-installed battery.

Technical support: support@ajax.systems

Request extra help

@AjaxSystemsSupport_Bot

Send a request

Please fill the form and we will answer as soon as possible.

Get started

Security Comparison

Select set

How it works

Why Ajax

User Agreement

- Not compatible with the <u>uartBridge</u> or <u>ocBridge Plus</u> The communication range can be up to 1,600 meters provided that there are no obstacles and the case is removed. Transmitter is set up via a mobile application for iOS and Android based smartphones.
- 1. QR code with the device registration key. Batteries contacts. 3. LED indicator. **4.** ON/OFF button. **5.** Terminals for detector power supply, alarm and tamper signals. **Operation procedure**
- Before starting connection: 1. Following the hub instruction recommendations, install the Ajax application on your
- **States** 1. Devices

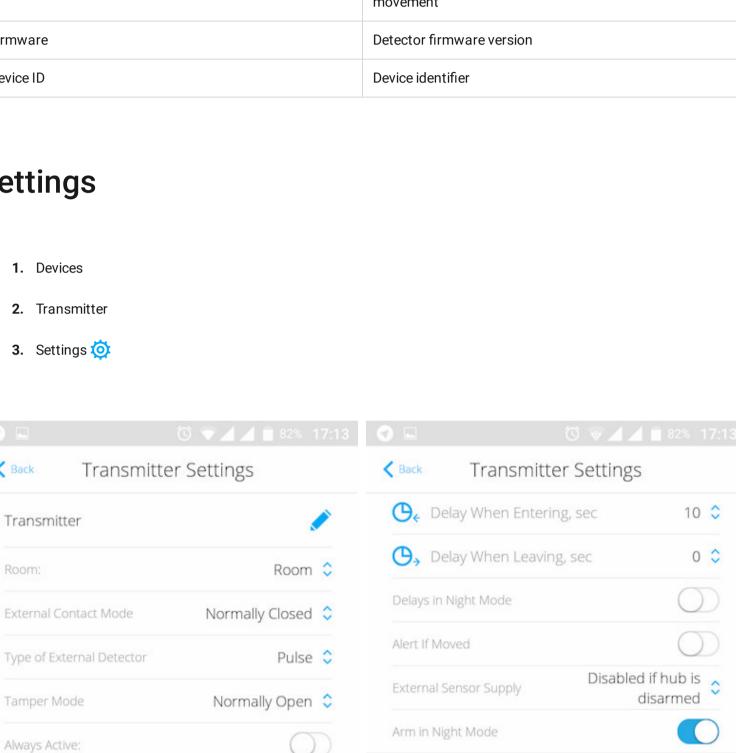
The Transmitter connected to the hub will appear in the list of devices of the hub in the

Request for connection to the hub is transmitted for a short time at the time of switching on the

If the connection to the Ajax hub failed, the Transmitter will switch off after 6 seconds. You may

application. Update of device statuses in the list depends on the device inquiry time set in the

Always Active No Delay When Entering, sec 10 sec Alert if Moved No Delay When Leaving, sec Disabled



10 0

0 0

Disabled if hub is

ALERT WITH A SIREN

Device name, can be edited

Normally closed (NC)

Normally opened (NO)

Normally closed (NC)

Normally opened (NO)

even when the system is disarmed

Selecting delay time when entering

Selecting delay time on exit

Pulsed

Bistable

detector:

Selection of the external detector type:

Signal Strength Test

Attenuation Test

Unpair Device

Value

Selecting the virtual room to which the device is assigned

Selection of the external detector normal status:

Selection of the normal tamper mod for an external

When the mode is active, the Transmitter transmits alarms

User Guide

If alarm detected

attl

Delays in night mode Alert if moved

- Delay turned on when using night mode The accelerometer turning on the Transmitter to provide an alarm in the event of device movement Turning the power on in 3.3 V external detector: Disabled if hub is disarmed Always disabled Always active If active, the device will switch to armed mode when using night mode If active, HomeSiren and StreetSiren actuate if an alarm is detected Switches the device to the signal strength test mode Switches the device to the signal fade test mode (available in detectors with firmware version 3.50 and later) Opens the device User Guide Disconnects the device from the hub and deletes its **Unpair Device**
- The type (mode) of the external detector that can be bistable or pulse. The tamper mode, which can be normally closed or normally open. **The accelerometer-triggered alarm** — you can turn this signal off or on. Select the power mode for the external detector: **Turned off when the hub is disarmed** — the module stops powering the external detector upon disarming and does not process signals from the ALARM terminal. When arming the detector, the power supply resumes, but the alarm signals are ignored for the first 8 seconds. Always disabled — the Transmitter saves energy by turning off the power of the external detector. The signals from the ALARM terminal are processed both in the pulse and

Indication

LED blinks for 4 seconds with an interval of 1 second, then

blinks 3 times rapidly (and automatically switches OFF).

LED blinks for 1 minute with an interval of 1 second, then

blinks 3 times rapidly (and automatically switches OFF).

Smoothly lights up and goes out when the detector or

The LED lights up for 1 second.

tamper is activated.

settings

The state of the external detector contact, which can be normally closed or normally

settings. The test time start depends on the settings of the detector scanning period (the paragraph on "Jeweller" settings in hub settings). **Signal Strength Test Attenuation Test**

Connection of the Module to the wired detectora

Location of the Transmitter determines its remoteness from the hub and presence of any

If the signal level is one division, we cannot guarantee stable operation of the security system.

Take possible measures to improve the quality of the signal! As a minimum, move the device -

If, after moving, the device still has a low or unstable signal strength, use a radio signal range

The Transmitter should be encased inside the wired detector case. The Module requires a space

with the following minimum dimensions: 110 x 41 x 24 mm. If the installation of the Transmitter

within the detector case is impossible, then any available radiotransparent case could be used.

1. Connect the Transmitter to the detector through the NC/NO contacts (choose the

even 20 cm shift can significantly improve the quality of reception.

relevant setting in the application) and COM.

The function of the Transmitter's terminals

The Ajax security system allows conducting tests for checking the functionality of connected

The tests do not start straight away but within a period of 36 seconds when using the standard

The maximum cable length for connecting the sensor is 150 m (24 AWG twisted pair). The value may vary when using different type of cable.

11 11 11 11

ALARM TAMP

IMPORTANT! Do not connect external power to the Transmitter's power outputs. This may damage

ALARM and TAMPER (NO/NC) terminals

868.0-868.6 MHz or 868.7 - 869.2 MHz, depends on sales

Operates only with Hub, Hub Plus, Hub 2 and ReX

Pulse or Bistable

Yes, 3.3V

Accelerometer

From -25°C to +50°C

Up to 75%

3 x CR123A, 3V batteries

- 2. Secure the Transmitter in the case. Plastic bars are included in the installation kit. It is recommendable to install the Transmitter on them.
- Maximum RF output power Up to 20 mW **GFSK** Modulation Communication range Up to 1,600 m (any obstacles absent) Ping interval for the connection with the receiver 12-300 sec

2. Battery CR123A - 3 pcs 3. Installation kit **4.** Quick Start Guide

Ask a quick question

> +38 044 538 13 10

J +38 066 022 44 32

J +38 068 597 36 07

Suggest a feature

We are always open to new ideas.

All ideas

If the device does not work correctly, you should first contact the support service—in half of the cases, technical issues can be solved remotely! The full text of the warranty

- Search

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