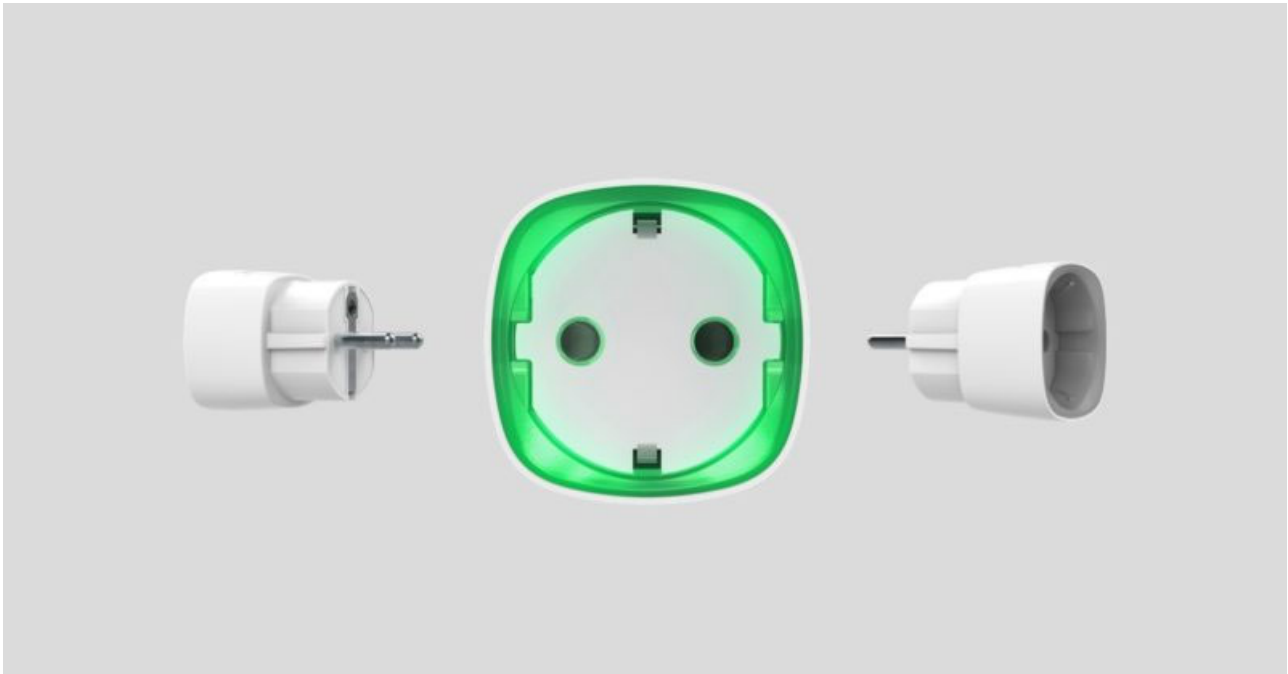


Socket User Manual

Updated June 1, 2021



Socket is a wireless indoor smart plug with the power-consumption meter for indoor use. Designed as a European plug adapter (Schuko type F), Socket controls the power supply of electrical appliances with a load of up to 2.5 kW. Socket indicates the load level and is protected from overload. Connecting to the Ajax security system via a secured [Jeweller](#) radio protocol, the device supports communication at a distance of up to 1,000 m in line of sight.



Socket operates with [Ajax hubs](#) only and does not support connecting via [ocBridge Plus](#) or [uartBridge](#) integration modules.

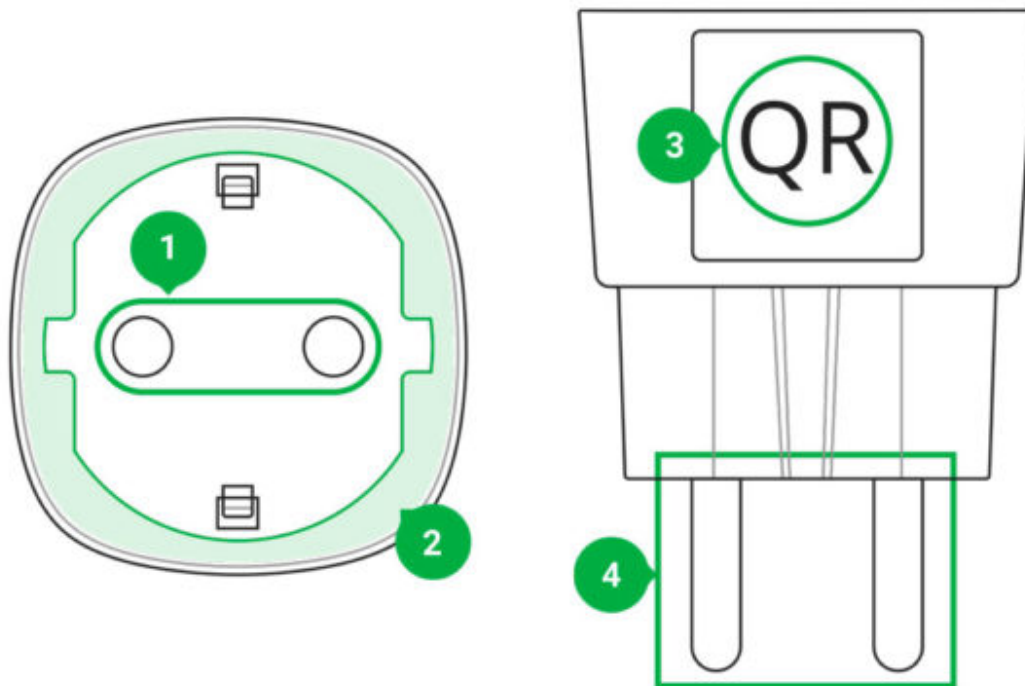
Use scenarios to program actions of [automation devices](#) (Relay, WallSwitch or Socket) in response to an alarm, [Button](#) press or a schedule. A scenario can be created remotely in the Ajax app.

[How to create and configure a scenario in the Ajax security system](#)

The Ajax security system can be connected to a central monitoring station of a

Buy smart plug Socket

Functional Elements



1. Two-pin socket
2. LED border
3. QR Code
4. Two-pin plug

Operating Principle

Socket switches on/off the 230 V power supply, opening one pole by the user command in the Ajax app or automatically according to a scenario, Button press, a schedule.

Socket is protected against voltage overload (exceeding the range of 184–253 V) or overcurrent (exceeding 11 A). In case of overload, the power supply switches off, resuming automatically when voltage restored to normal values. In case of overcurrent, the power supply switches off automatically, but can only be restored manually by the user command in the Ajax app.



The maximum resistive load is 20 kW. When using inductive or capacitive loads, the maximum switching current is reduced to 8 A at 230 V!

Socket with firmware version 5.54.1.0 and higher can operate in pulse or bistable mode. With this firmware version you can also select the relay contact status:

- **Normally closed** – Socket stops supplying power when activated, and resumes when turned off.
- **Normally open** – Socket supplies power when activated, and stops feeding when turned off.

Socket with firmware version below 5.54.1.0 only works in bistability mode with a normally open contact.

How to find out the firmware version of the device?

In the app, users can check the power or amount of energy consumed by electrical appliances connected via Socket.



At low loads (up to 25 W), current and power consumption indications may be displayed incorrectly due to hardware limitations.

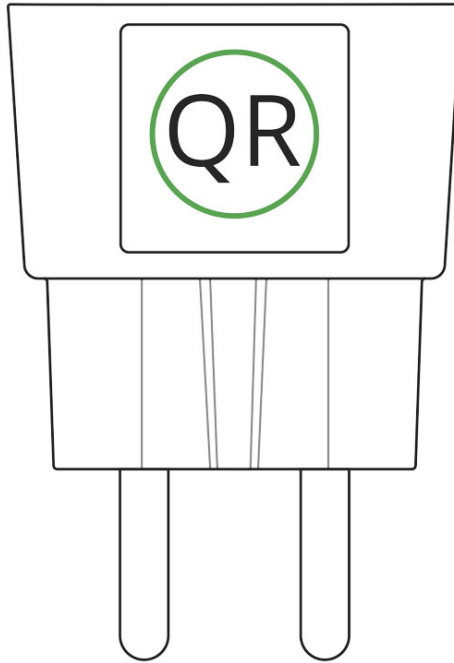
Connecting

Before connecting the device

1. Switch on the hub and check its Internet connection (the logo glows white or green).
2. Install the [Ajax app](#). Create the account, add the hub to the app, and create at least one room.
3. Make sure that the hub is not armed, and it does not update by checking its status in the Ajax app.

To pair Socket with the hub

1. Click **Add device** in the Ajax app.
2. Name the device, scan it, or enter the **QR code** manually (located on the case and packaging), select the room.



3. Plug the Socket into a power outlet and wait 30 seconds – the LED frame will flash green.
4. Click **Add** – the countdown will begin.
5. Socket will appear in the list of hub devices.

The device statuses update depends on the ping interval set in the hub settings. The default value is 36 seconds.

If the device failed to pair, wait 30 seconds and then retry.

For detection and pairing to occur, the device should be located in the coverage area of the hub's wireless network (at the same object). A connection request is transmitted only at the moment of switching on the device.

When pairing the hub with the smart plug that was previously paired with

frame continuously blinks green.

If the device has not been correctly unpaired, do the following to connect it to the new hub:

1. Make sure that Socket is outside the coverage area of the former hub's wireless network (the indicator of the communication level between the device and the hub in the app is crossed out).
2. Select the hub with which you want to pair Socket.
3. Click **Add Device**.
4. Name the device, scan or enter the **QR code** manually (located on the case and packaging), select the room.
5. Click **Add** – the countdown will begin.
6. During the countdown, for a few seconds, give Socket at least 25 W load (by connecting and disconnecting a working kettle or lamp).
7. Socket will appear in the list of hub devices.



Socket can be connected to one hub only.


States

1. Devices
2. Socket

Parameter	Value
Jeweller Signal Strength	Signal strength between the hub and the Socket
Connection	Connection status between the hub and the Socket
Routed Through ReX	Displays the status of using the ReX range extender

Current protection	Indicates whether the overcurrent protection is enabled
Voltage protection	Indicates whether the overvoltage protection is enabled
Power	Current consumption in W
Electric Energy Consumed	The electric power consumed by the device connected to the Socket. The counter is reset when the Socket lose the power
Temporary Deactivation	Displays the status of the device: active or completely disabled by the user
Firmware	Device firmware version
Device ID	Device identifier

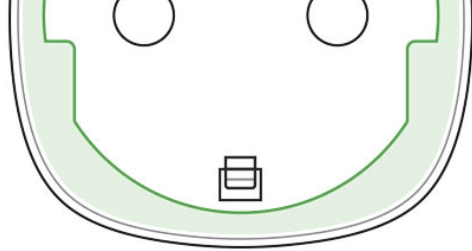
Settings

1. Devices
2. Socket
3. Settings 

Setting	Value
First field	Device name, can be edited
Room	Selecting the virtual room to which the device is assigned
Mode	Selecting Socket operation mode: <ul style="list-style-type: none"> ● Pulse – when activated, Socket generates a pulse of a given duration ● Bistable – Socket, when activated, changes the state of contacts to the opposite

Contact status	<ul style="list-style-type: none"> • Normally closed • Normally open
Pulse duration	<p>Selecting the pulse duration in the pulse mode:</p> <p>From 0.5 to 255 seconds</p>
Overcurrent Protection	If enabled, power supply switches off if the current load exceeds 11A, if disabled the threshold is 16A (or 13A for 5 seconds)
Overvoltage protection	If enabled, power supply switches off in case of a voltage surge beyond the range of 184 – 253 V
Indication	The option of disabling the LED frame of the device
LED Brightness	The option of adjusting the brightness of the LED frame of the device (high or low)
Scenarios	<p>Opens the menu for creating and configuring scenarios</p> <p>Learn more</p>
Jeweller Signal Strength Test	Switches the device to the signal strength test mode
User Guide	Opens the Socket User Guide
Temporary Deactivation	<p>Allows the user to deactivate the device without removing it from the system. The device will not execute system commands and participate in automation scenarios. All notifications and alarms of the device will be ignored</p> <p>Please note that deactivated device will save it's current state (active or inactive)</p>
Unpair Device	Disconnects the device from the hub and deletes its settings

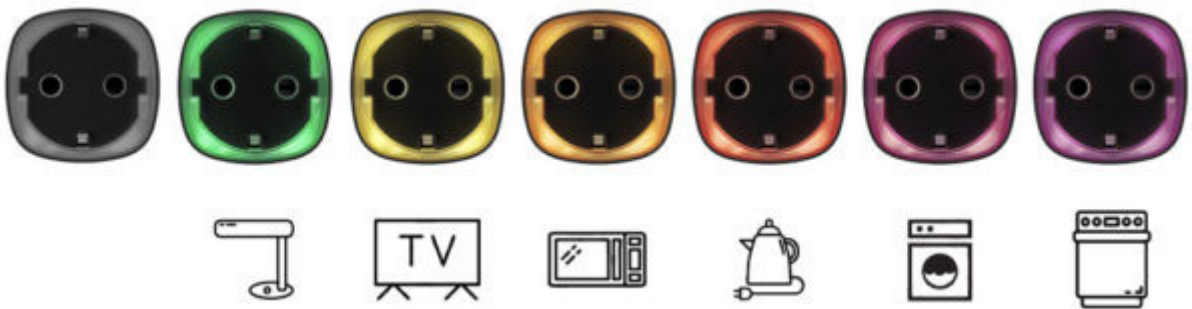
Indication



Socket informs the user of the power level consumed by connected appliances using the LED.



If the load is more than 3 kW (purple), the current protection activates.



Load level	Indication
No power on the Socket	Don't have any indication
Socket turned off	Blue
Socket turned on, no load	Green
~550 W	Yellow
~1250 W	Orange
~2000 W	Red
~2500 W	Dark red
~3000 W	Purple
One or more types of protection triggered	Smoothly lights up and goes out red
Hardware failure	Quick red flashes

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

The tests do not start immediately but within a period of 36 seconds when using default settings. The test time start depends on the settings of the detector ping interval (the “**Jeweller**” menu in the hub settings).

Jeweller Signal Strength Test

Installation of the Device

The location of Socket depends on its remoteness from the hub, and obstacles hindering the radio signal transmission: walls, floors, large objects inside the room.



Do not install the device near sources of magnetic fields (magnets, magnetized objects, wireless chargers, etc.) and inside rooms with temperature and humidity outside the permissible limits!

Check the Jeweller signal level at the installation location. If the signal level is low (one bar), we cannot guarantee the stable operation of the device.

If the device has a low or unstable signal strength, use a [ReX radio signal range extender](#).

Socket is designed to connect to a European two-pin socket (Schuko type F).

Maintenance

The device does not require maintenance.



In case of using inductive or capacitance load, the maximum switched current is reduced to 8 A at 230 V AC!

Compliance with standards

Complete Set

1. Socket
2. Quick Start Guide

Warranty

Warranty for the “AJAX SYSTEMS MANUFACTURING” LIMITED LIABILITY COMPANY products is valid for 2 years after the purchase.

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](#)

[User Agreement](#)

Customer support: support@ajax.systems