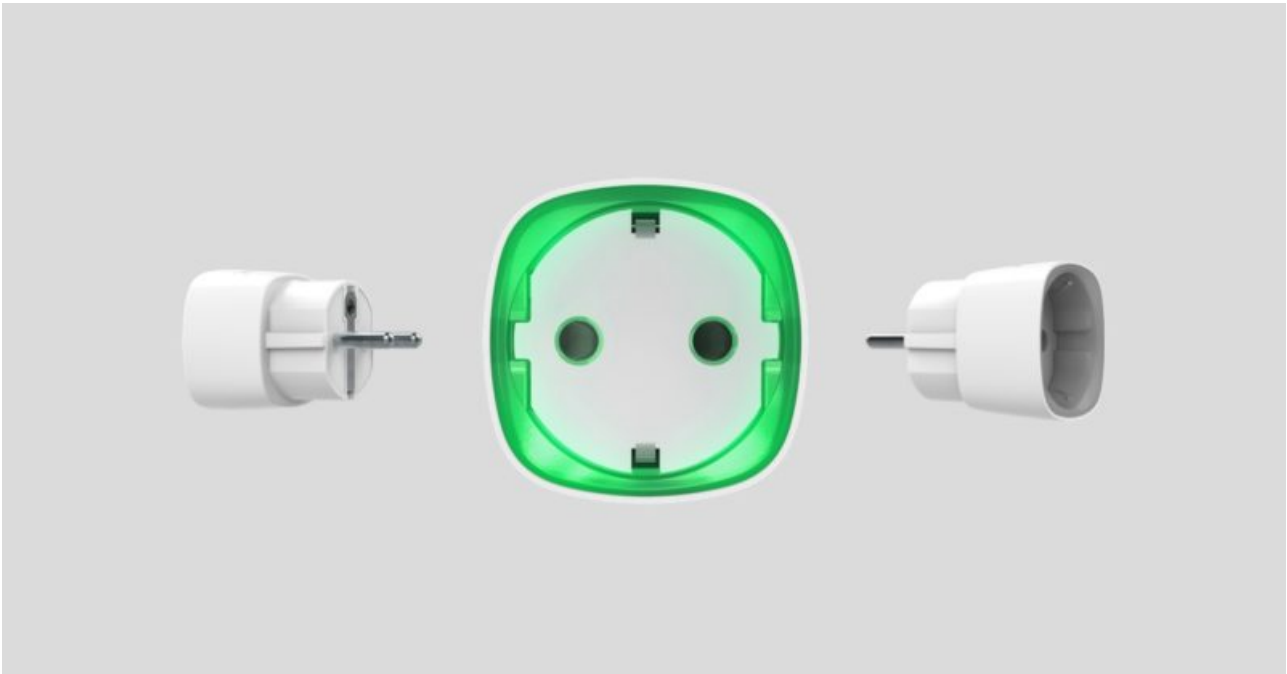


Socket User Manual

Updated March 3, 2020



Socket is a wireless 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.

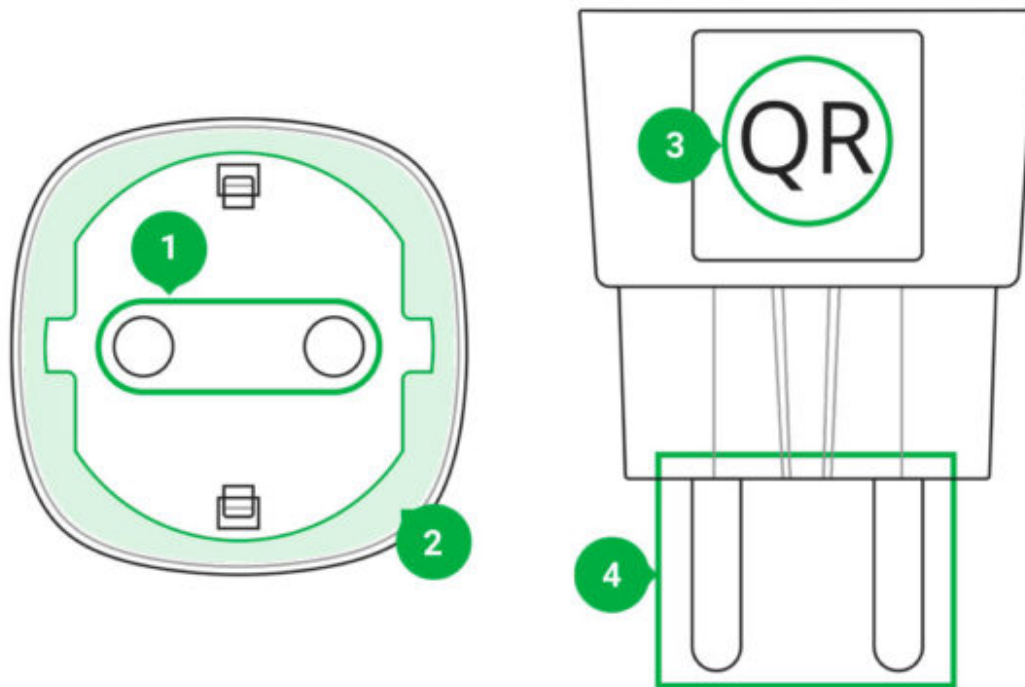
Use scenarios to program actions of [automation devices](#) (Relay, WallSwitch or Socket) in response to an alarm, [Button](#) press or a schedule. A scenario can be created remotely in the Ajax app.

[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 security company.

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

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

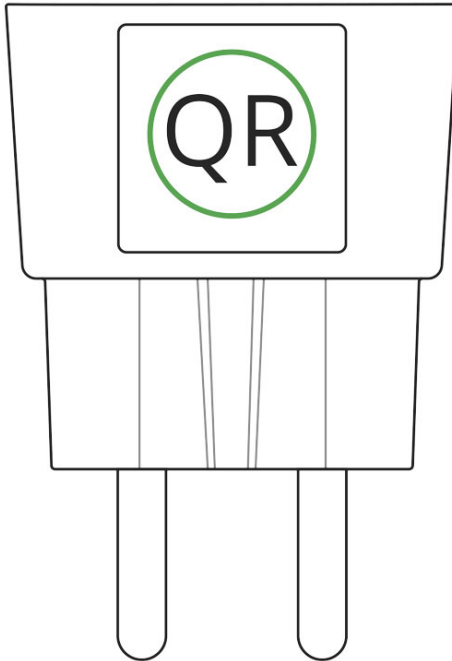
1. Switch on the hub and check its Internet connection (the logo glows white or green).
2. Install the [Ajax app](#). Create the account, add the hub to the app, and create at least one room.
3. Make sure that the hub is not armed, and it does not update by checking its status in the Ajax app.



Only users with administrator rights can add a device to the 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 another hub, make sure that it was unpaired with a former hub in the Ajax app. For correct unpairing, the device should be in the coverage area of the hub's wireless network (at the same object): when unpaired correctly, the Socket LED 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

< Back

Socket



 Jeweller Signal Strength 
 Connection Online
 Routed Through ReX No
 Active Yes
 Voltage 230V
 Current 0.02A
 Power 5 Watt
 Electric Energy Consumed 0.19kWh


Ajax Socket

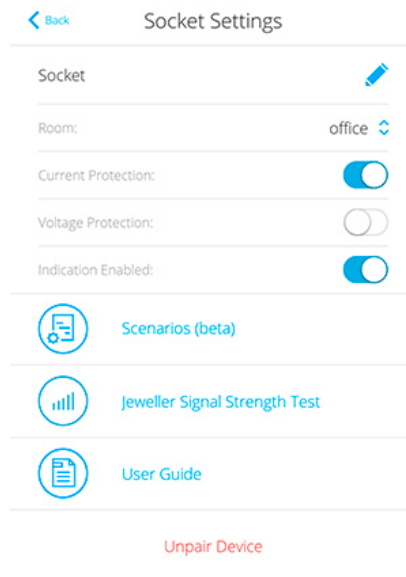
Firmware 3.55.0.0, Device ID 25752C1E1

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
Active	State of the Socket (turned on/off)
Voltage	The current input voltage level of Socket
Current	Current at the Socket input
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
Firmware	Device firmware version
Device ID	Device identifier

Settings

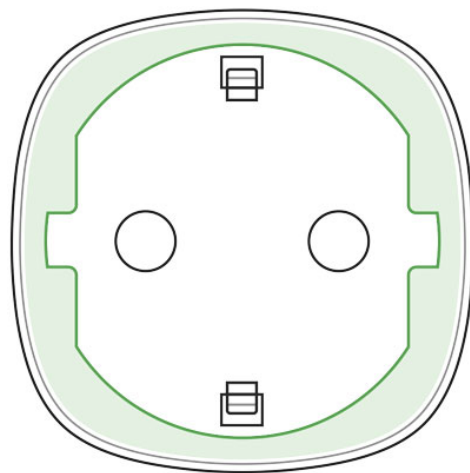
1. Devices
2. Socket
3. Settings 



Setting	Value
First field	Device name, can be edited
Room	Selecting the virtual room to which the device is assigned
Current protection	If enabled, power supply switches off if the current load exceeds 11A, if disabled the threshold is 6A (or 13A for 5 seconds)
Voltage protection	If enabled, power supply switches off in case of a voltage surge beyond the range of 184 – 253 V
Indication	If enabled, the LED shows the load with different colors

Scenarios	Opens the menu for creating and configuring scenarios Jeweller Signal Strength Test
Jeweller Signal Strength Test	Switches the device to the signal strength test mode
User Guide	Opens the Socket User Guide
Unpair Device	Disconnects the device from the hub and deletes its settings

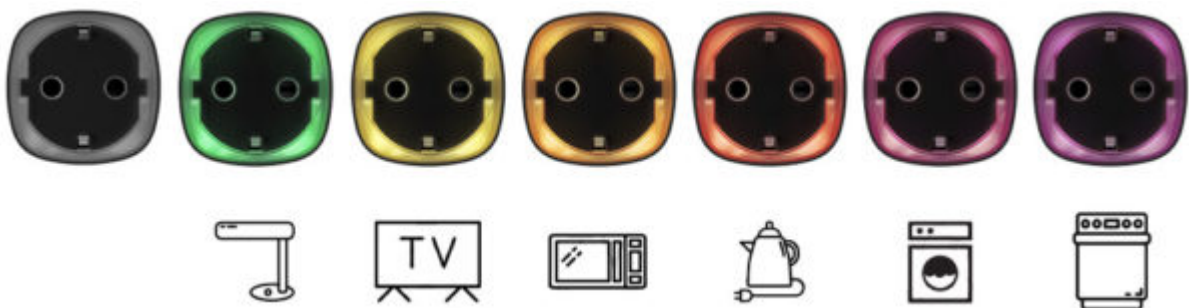
Indication



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 exact power can be seen in the [Ajax Security System application](#).

Functionality Testing

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.

Tech specs

Actuating element	Electromagnetic relay
Service life	At least 200,000 switches
Voltage and type of external power supply	110–230 V, 50/60 Hz
Voltage protection for 230 V mains	Yes, 184–253 V
Maximum load current	11 A (continuous), 13A (up to 5 s)
Maximum current protection	Yes, 11 A if the protection is turned on, up to 13 A if the protection is turned off
Maximum temperature protection	Yes, +85°C. The socket turns off automatically if the temperature is exceeded
Electric shock protection class	Class I (with grounding terminal)
Energy consumption parameter check	Yes (current, voltage, power consumption)
Load indicator	Yes
Output power (resistive load at 230 V)	Up to 2.5 kW
Average energy consumption of the device on standby	Less than 1 W·h
Frequency band	868.0 – 868.6 MHz
Compatibility	Operates only with Hub , Hub Plus , Hub 2 and ReX
Maximum radio signal power	8,97 mW (limit 25 mW)

Radio signal modulation	GFSK
Radio signal range	Up to 1000 m (when there are no obstacles)
Operating temperature range	From 0°C to +40°C
Operating humidity	up to 75%
Protection class	IP20
Overall dimensions	65.5 × 45 × 45 mm (with plug)
Weight	58 g



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

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

