



# Andromeda Socket

## User manual

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# 1. Introduction

## 1.1 Product description

The Gewa Andromeda Socket is a so called relay unit. By connecting the relay unit between, for example, a lamp and a wall socket, you can turn the lamp on and off with a transmitter or a control switch.



The Andromeda Socket can function in two different ways:

- The power switches between on and off. For example, switching on and off a lamp. (Bistable function).
- The power is on as long as the button on the transmitter is pressed. For example, to drive an electric mixer. (Monostable function.)

The Andromeda Socket is a part of the “GewaLink-system” and therefore can be used together with all of these products, including Gewa IR transmitter and Z-Wave transmitter.

The Andromeda Socket comes factory set with GewaLink channel 16 and bistable function.

**⚠ WARNING:** For safety reasons, never connect devices that requires continuous powersupply, e.g., life support devices.

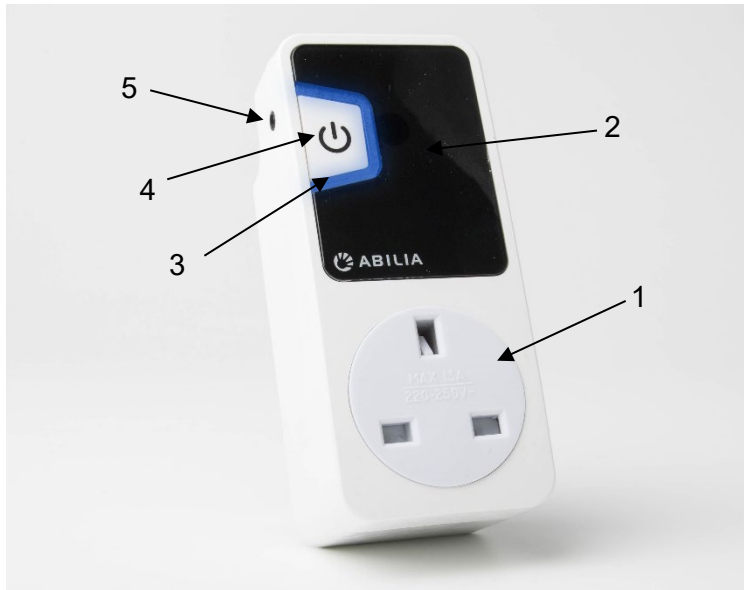
**⚠ WARNING:** For safety reasons, never connect devices in series!

## 1.2 Intended puporse

Andromeda socket provides the ability to remotely control electronic equipment at home. It is intended to support people with motor-, cognitive or visual impairments to control various home appliances, for example turn on and off lamps with a remote control or a connected control switch. The device is intended for indoor use and can easily be moved between different electrical outlets.

## 2. Product Overview

Andromeda Socket consists of the following parts:



1. 230V socket. For connection of the device to be controlled.	4. <i>On/Off</i> button. For programming and to manually turn <i>On/Off</i> the power.
2. Detector eye. Receives IR signal.	5. 3.5 mm jack. For connecting an external control switch.
3. Indication light.	

## 3. Connection

1. Make sure that the device to be connected, that has its own power switch is set to “on”. This is easiest done by connecting to a wall socket and ensure that the device is on (for example a lamp should be lit).
2. Connect the Andromeda Socket to a wall socket.
3. Connect the device to be controlled to the socket on the relay unit (1).
4. Make sure that the device gets power by pressing the *On/Off* button (4).
5. If IR is used, keep in mind that the range will be reduced if the detector eye (2) is covered or hidden in some way, for example by curtains or furniture.
6. Program the relay unit by following the instructions in the next chapter.

The Andromeda Socket comes factory set with GewaLink channel 16 and bistable function. The relay unit does not need to be programmed if it is the function and channel to be used on the IR transmitter.

## 4. Programming

The Andromeda Socket can be programmed for the following use:

- IR control with GewaLink channels
- Radio control (Z-Wave)
- Control switch

**⚠ WARNING:** The relay is activated during the programming. This may cause an inadvertent activation of some equipment.

### 4.1 Control with IR transmitter

#### 4.1.1 On/Off (bistable function)

**Example:** To turn on and off a lamp every other time the button on the IR-transmitter is pressed.

1. Press the *On/Off* button (4) and, at the same time, press the selected button on the IR transmitter until the indication light on the relay unit flashes and the relay have clicked 3 times.
2. Check the function by pressing the selected button on the IR transmitter.



#### 4.1.2 Keep turned on (monostable function)

**Example:** To practice cause and effect with a connected electric mixer. The mixer runs as long as the button on the transmitter is pressed.

1. Press the *On/Off* button (4) and, at the same time, press the selected button on the IR transmitter until the indication light on the relay unit flashes and the relay have clicked 3+3 times.
2. Check the function by pressing the selected button on the IR transmitter.



## 4.2 Control with Radio transmitter

### 4.2.1 Radio transmitter (Z-Wave)

**Example:** To turn a lamp on and off every other time you press the button on the Z-wave transmitter.

When controlling with radio you can only have the On/Off function (bistable function).

Andromeda Socket can be included and operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers and/or other applications. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

### 4.2.2 Z-Wave network functions

#### **Add (Include):**

1. Put the system controller (Z-Wave transmitter) into inclusion mode (Include) by following the instructions provided by the controller manufacturer.
2. Press the *On/Off* button on Andromeda Socket three times within 1.5 seconds.

#### **Remove (Exclude):**

1. Put the system controller (Z-Wave transmitter) into exclusion mode (Exclude) by following the instructions provided by the controller manufacturer.
2. Press the *On/Off* button on Andromeda Socket three times within 1.5 seconds.

#### **Reset (Reset):**

1. Press and hold the *On/Off* button on Andromeda Socket for approx. 6 seconds until the indication light glows steadily.
2. Release the *On/Off* button on and press ones again within 3 seconds.

**NOTE:** Use this procedure only in the event that the system controller (Z-Wave transmitter) is missing or otherwise inoperable.

#### **Associating Andromeda Socket in a Z-Wave Network (Associate):**

The Andromeda Socket supports the Association Group 1 (Lifeline) and up to 5 devices can be added to this group. Association process only works after the device has been included to a Z-Wave network.

1. Put the controller into Association mode. Some controllers can automatically associate. See the controller manufacturer manual.
2. Identify Andromeda Socket to the controller by sending the node information, do this by pressing the *On/Off* button three times within 1.5 seconds.
3. The controller should confirm association when the process is successfully completed. See the controller manufacturer manual for more information.

### 4.3 Control with control switch

**NOTE:** Only control switches that meet the requirements of the Medical Device Directive 93/42/EEC may be connected to Andromeda Socket.

#### 4.3.1 On/Off (bistable function)

**Example:** To turn on and off a lamp every other time the control switch is pressed.

1. Connect a control switch with 3.5 mm plug to the jack (5).
2. Press the *On/Off* button (4) and, at the same time, press the control switch until the indication light on the relay unit flashes and the relay have clicked 3 times.
3. Check the function by pressing the control switch.



#### 4.3.2 Keep turned on (monostable function)

**Example:** To practice cause and effect with a connected electric mixer. The mixer runs as long as the control switch is pressed.

1. Connect a control switch with 3.5 mm plug to the jack (5).
2. Press the *On/Off* button (4) and, at the same time, press the control switch until the indication light on the relay unit flashes and the relay have clicked 3+3 times.
3. Check the function by pressing the control switch.



## 5. Resetting to default setting

On delivery the Andromeda Socket is factory set with GewaLink channel 16 and bistable function.

Do the following to restore:

1. Press and hold the *On/Off* button (4) for approx. 6 seconds until the indication light glows steadily.
2. Release the *On/Off* button and press it once again within 3 seconds.

**NOTE:** This will also perform a Reset of Z-Wave network. See section *Z-Wave network functions* for more info.

## 6. Cleaning

The Andromeda Socket can be cleaned with a damp cotton wool pad with surgical spirit, Chlorhexidine, ethyl alcohol or isopropanol. It can also be cleaned with a damp cloth (weak solution of washing up liquid). Wipe dry after cleaning.

## 7. Storage and disposal

### 7.1 Storage

Keep the product indoors at room temperature and away from moist.

### 7.2 Disposal

The Andromeda Socket contains electronics components that must be recycled. When the product is no longer of use, hand it in to a recycling centre for waste electrical and electronic equipment.





## 8. Technical data

### 8.1 Environment

The Andromeda Socket may only be used indoors in a dry environment (IP20).

### 8.2 Technical data

Supply voltage:	230 V AC, 50 Hz
Power consumption:	2.0 W
Maximum relay load:	2990 VA, 13 A resistive load
Programming channels:	GewaLink channels 0-127 (channel 62 has no function) and 4096 code
Frequency Z-Wave:	868.42 MHz
Input control switch type:	3.5 mm jack plug (2-pole mono female)
Range GewaLink:	30 m
Range Z-Wave:	At free sight, approx. 30 m
Measurements:	53 x 122 x 43 mm (excl. plug)
Weight:	160 g





## 9. Important information

Before you use the product, read and understand the contents of this user manual.

### 9.1 Safety

#### Safety definitions

 **WARNING:** Risk of injury or death if the instructions are not followed.

 **CAUTION:** Risk of damage to the product if the instructions are not followed.

**NOTE:** Information that is necessary in a given situation.

### 9.2 Safety instructions for operation

 **WARNING:** Read the following warning instructions before you use the product.

- For safety reasons, never connect devices that requires continuous power supply, e.g., life support devices.
- For safety reasons, never connect devices in series!
- The relay is activated during the programming. This may cause an inadvertent activation of some equipment.

### 9.3 Serious incidents

If a serious incident related to the product occurs, this must be reported to the manufacturer and the competent authority of your country.

An incident is regarded serious if it directly or indirectly led, might have led or might lead to either of these situations:

- The death of a patient, user or other person.
- The temporary or permanent serious deterioration of a patient's, user's or other person's state of health.
- A serious public health threat.

### 9.4 Conformance with requirements for medical devices

Andromeda Socket is marketed as a technical aid for people with disabilities. It complies with all necessary requirements, regulations and directives for medical devices.

### 9.5 Product liability

The product has been developed and risk-assessed in accordance with ISO 14971. The user manual and the technical specifications are made according to the safety assessments in the risk analysis. Always consider the safety when using the product. If the product is used in other ways than the intended use, it may involve risks for which Abilia AB does not take responsibility. The estimated life of the product applies when used in accordance with its intended use and maintenance instructions.

Abilia AB is not liable for any loss, damage or consequential loss if the product has been used or installed in any way other than as specified in this document. Any form of damage or tamp.

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