

M-CON-ZWAVE-s: Z-Wave integration module

Document number: PO-035-EN Version: 1.2.0 Date of publication: September 26, 2023



Technical data

Supply voltage
11 – 16V DC

Idle current consumption
40mA

Maximum current consumption
45mA

Communication interface
Z-Wave

Dimensions

Width
35mm, 2 spaces/modules in
DB

Height (incl. plugs)
100mm

Depth
59mm

Environment

Temperature
-40 – 50°C

Humidity
≤95%RH, non-condensing

The image above is for illustration purpose only. The actual module may vary from the one presented here.

General features

Module M-CON-ZWAVE-s is a component of the Ampio system. Required voltage to power the module is 11 – 16V DC. The module is controlled via CAN bus.

The module allows for integration with a number of devices that support the Z-Wave wireless communication protocol.

Supported Z-Wave devices

The following list includes Z-Wave devices that can be integrated with the M-CON-ZWAVE-s module.

- Aeotec - Multisensor 6,
- Danfoss - living connect Z (SW 1.01),
- Everspring - ST814,
- Fakro - Actuators for roof windows,
- Fibaro - Dimmer 2 (V3.5),
- Fibaro - Door/Window Sensor (V3.2, V2.5),
- Fibaro - Double Switch 2 (V3.3),
- Fibaro - Flood Sensor (V3.2),
- Fibaro - Motion Sensor,
- Fibaro - Single Switch,
- Fibaro - Smoke Sensor (V2.5),
- Fibaro - Universal Binary Sensor,
- Fibaro - Wall Plug,
- GreenWave - NS310-F,
- NEO CoolCam - Motion Sensor,
- NEO CoolCam - Wall Plug,
- Swiid - SwiidInter II,
- Zipato - Valve Controller.

Installation

The module is designed for mounting on a 35mm DIN rail. The module's width is 35mm, 2 spaces/modules in DB. In order to start the module, it must be connected to the CAN bus. The bus of the Ampio system consists of four wires - two for power and two for communication between the modules.

In addition to the CAN bus connector, the device has an SMA connector for a Z-Wave antenna. The connector is on the right side of the module, therefore it is recommended that the module is installed on the right side of the distribution board, so that it is possible to attach an antenna or an antenna's cable to it.

Device status LEDs

On the front of the module there are signalling LED indicators. The green LED with the label *CAN* indicates the status of communication on the CAN bus:

- one regular flash every 1 sec. – CAN bus communication is working properly,
- two regular flashes every 1 sec. – the module is not receiving information from other modules,
- three regular flashes every 1 sec. – the module cannot send information to the CAN bus;

Apart from the communication bus status LED, there are two red LEDs on the front of the device:

- *DIAG* - the diagnostic LED, which may be useful when contacting the Technical Support Service;
- *TX* - indicates that the device is sending data via the Z-Wave interface.

Programming

The module is programmed with a special programmer, available for authorised technicians, and the Ampio Smart Home CAN configurator software. It allows you to modify the parameters of the module and define its behaviour in response to signals directly available to the module as well as general information coming from all devices present in the home automation bus.

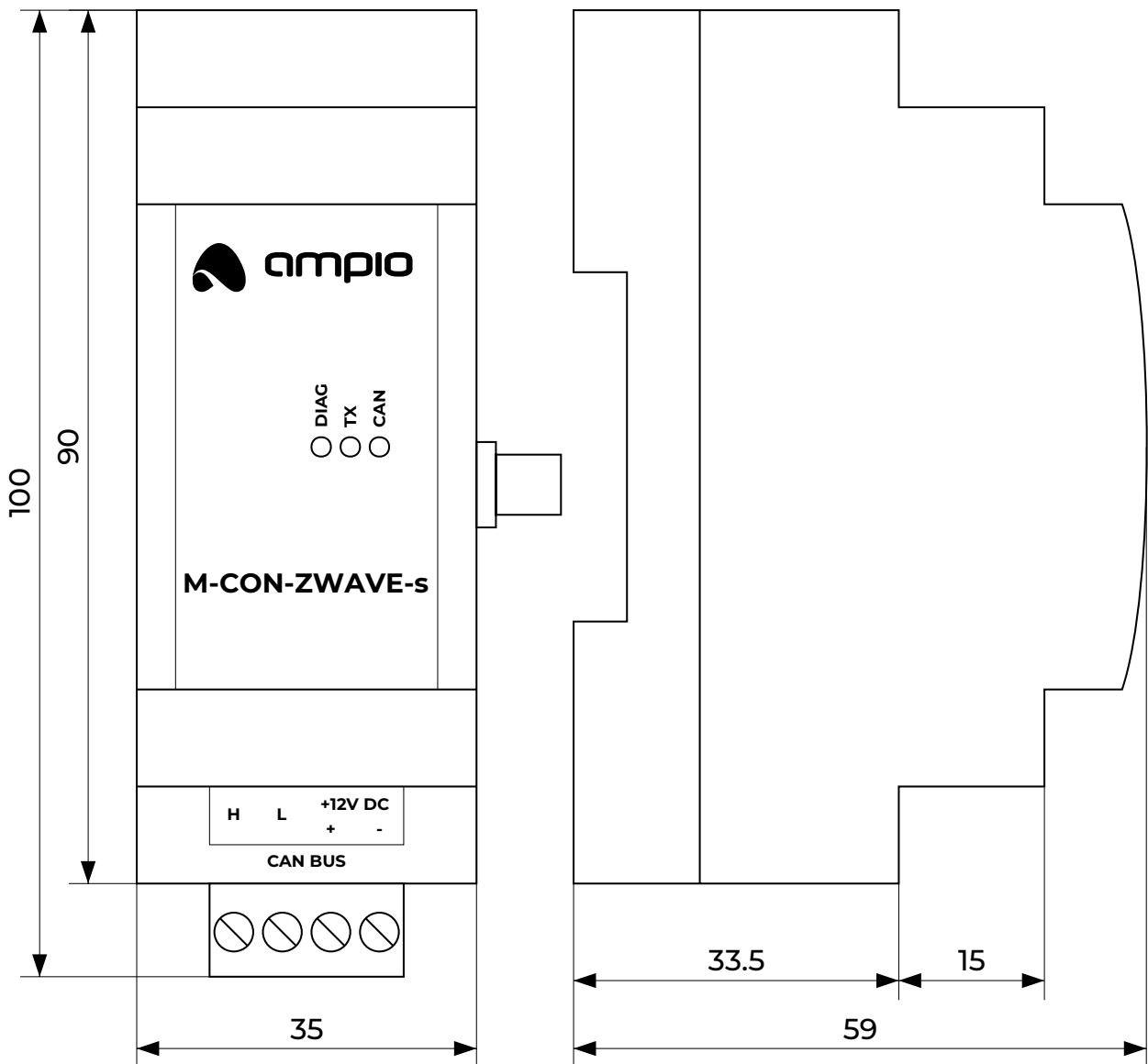
Pairing of supported device with the M-CON-ZWAVE-s module is initiated from the Smart Home CAN configurator application. After putting the device into pairing mode, follow the pairing procedure defined by the manufacturer of the paired device.

Once pairing is completed, the connected device will be seen by the building automation system as a virtual device.

It is not recommended to use more than 8 slave modules per one base station module. Installing more modules may result in excessive load on the wireless network and improper functioning of the system.

Module dimensions

Dimensions expressed in millimeters.



Connection diagram

