


M-CON-WZ-p: Base station module for Ampio WZ wireless modules

Document number: PO-226-EN Version: 1.0.0 Date of publication: May 12, 2025

	Technical data	Dimensions	Environment
	Supply voltage 11 – 16V DC	Width 41mm	Temperature -40 – 50°C
	Idle current consumption 16mA	Height 44mm	Humidity ≤95%RH, non-condensing
	Maximum current consumption 100mA	Depth 16.5mm	

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

General features

Module M-CON-WZ-p 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 acts as a base station for wireless modules.

Only one M-CON-WZ-p module can be present within an Ampio building automation installation.

Ampio WZ base station

The device acts as a base station for Ampio devices from the WZ group, communicating via the Ampio WZ wireless interface. As a base station, the device mediates communication between the wireless modules and other devices in the building automation installation.

As part of the installation activities, each Ampio WZ device must be paired with a module acting as a base station. To do this, enter the M-CON-WZ-p module into the search mode for modules from the WZ group using the Ampio Designer software. While the search mode is active, press the pairing button. If the operation is successful, the found device will appear in the list of paired wireless modules in the Ampio Designer software.

Example application

- Connection of Ampio devices from the WZ group, communicating via a wireless interface with the wired part of the building automation installation.

Installation

The dimensions of the module enable its installation in a standard junction box. 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.

Outside the casing of the device is a cable which forms its antenna.

Device status LEDs

On the front of the module there are signalling LED indicators. The red 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;

Programming

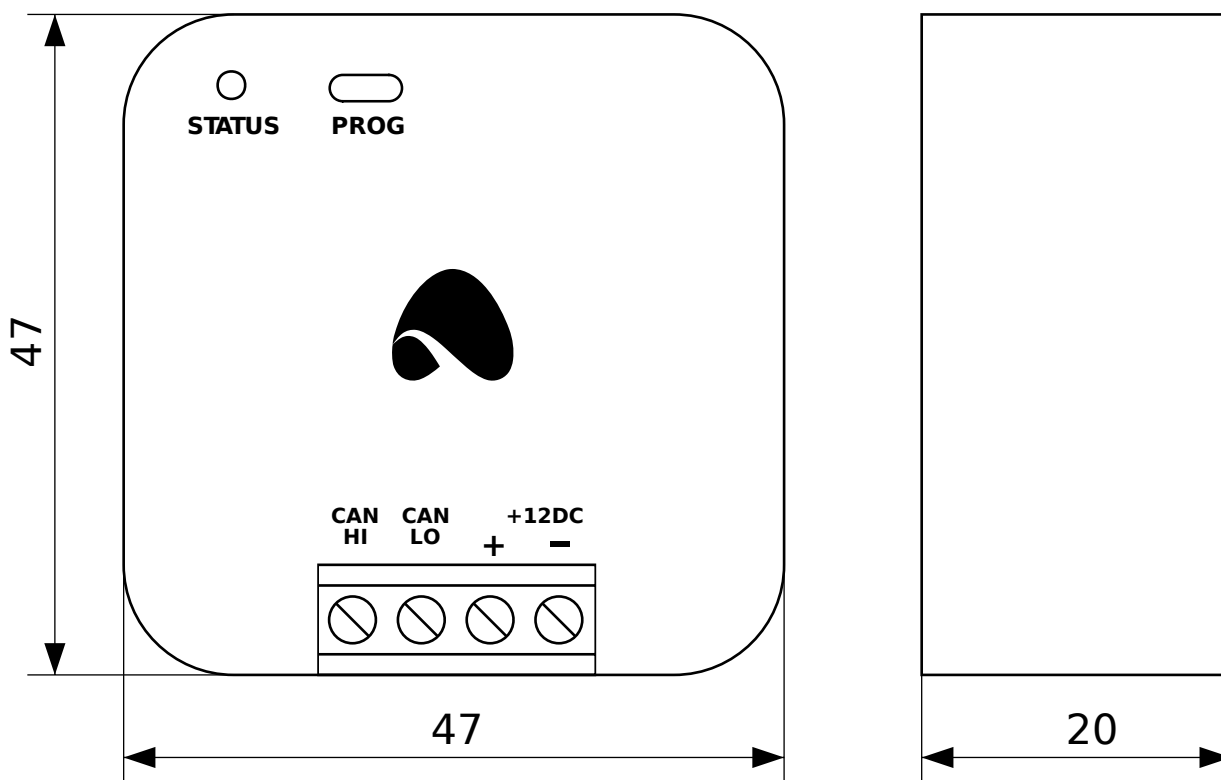
The module is programmed with the use of the [Ampio Designer](#) software. It allows you to modify the parameters of the module and define its behaviour in response to signals directly available to the module as well as general information coming from all devices present in the home automation bus.

We do not recommend using more than 8 Ampio WZ wireless modules per base station module. Installing more modules may result in excessive load on the wireless network and malfunction of the system.

Module dimensions

Dimensions expressed in millimeters.

The dashed lines mark the areas where the device connectors or its other elements can be located.



Connection diagram

