

M-IN-PTK3p: Module with three PT1000 sensor inputs

Document number: PO-042-EN Version: 1.1.0 Date of publication: July 7, 2022



Technical data

Supply voltage

11 – 16V DC

Current consumption

35mA

Number of PT1000 inputs

3

Temperature measuring range

-200°C – 550°C

Dimensions

Width

41mm

Height

44mm

Depth

16.5mm

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-IN-PTK3p 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 has three platinum PT1000 temperature sensors inputs.

PT1000 inputs

The module has inputs that allow for measuring the temperature with the use of platinum PT1000 sensors. These sensors facilitate the implementation of accurate measurements in a wide range of temperatures, so they can be used, for example, to monitor the temperature of central heating geysers or fireplaces.

The module's temperature measurement range is -200°C – 550°C.

Typical application

- Temperature measurements of central heating systems.

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.

In addition to the CAN bus connector, the device has three connectors that allow one to connect PT1000 platinum temperature sensors.

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;

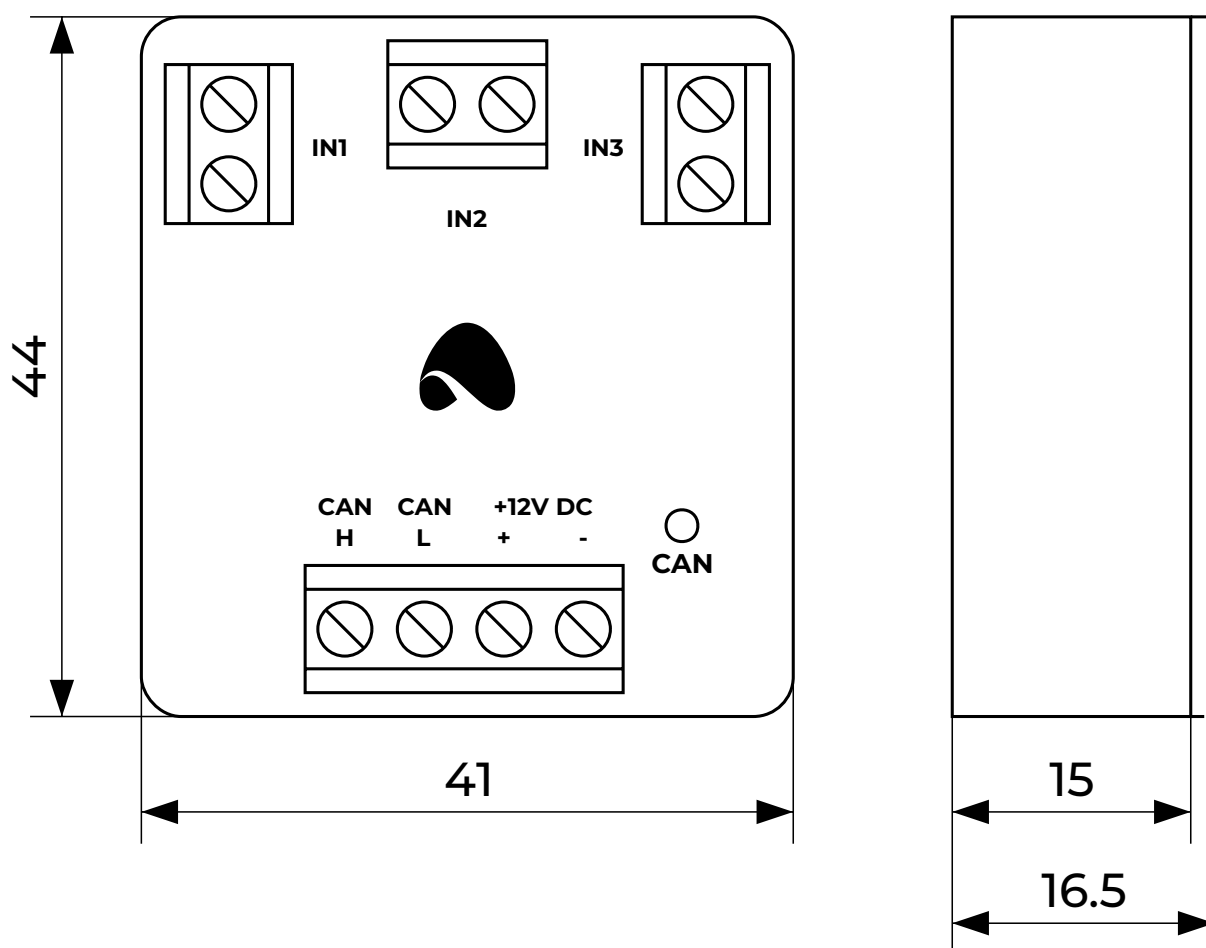
Programming

The module is programmed with 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.

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

