

M-DOT-T6: 6-field touchscreen panel module

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Technical data

Supply voltage
11 – 16V DC

Idle current consumption
100mA

Maximum current consumption
120mA

Number of sensor fields
6

Technical data cont.

Number of available screens
6

1-Wire
up to 6 sensors

Buzzer
yes

Display size
3.5"

Dimensions

Width
90mm*

Height
160mm*

Depth
22mm

Environment

Temperature
-20 – 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.

* The exact dimensions of the module depend on the variant of the glass edge finish selected when placing an order.

General features

Module M-DOT-T6 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 six touch-sensitive fields and a configurable touch display, as well as a 1-Wire interface.

Touchscreen

The 3.5' screen displays information and control buttons according to the configuration made in the Ampio Designer tool. Among other things, the module allows the following predefined screen types to be activated:

- information screen,
- a timer screen.

Sensor fields

The touch panel's sensor fields are capacitive buttons located behind the sheet of glass that makes up the front of the module. Each sensor field is identified by a symbol engraved on the glass surface.

The condition for triggering the action associated with a button can be pressing, holding, double pressing, etc. A single button can trigger multiple actions depending on how it is triggered.

Each sensor field is illuminated with an RGB LED, which allows you to define any backlight color. The backlighting can be permanent or change during system operation, signaling the status of devices associated with the button or any other information available within the building automation system.

Above the sensor fields are colored status LEDs. Similar to the backlighting, they can signal the status of devices associated with the button, or any other information available within the building automation system.

Calibration of touch fields

The M-DOT panel calibration process runs automatically each time the power is switched on. To ensure optimum sensitivity and trouble-free operation of the device, it is essential to follow the guidelines below:

Final installation: Calibration must only be carried out after the panel has been fully installed in the mounting box. Testing the module 'in your hand' prior to installation prevents the correct reading of the base electrical capacitance, resulting in unstable operation of the touch panels.

Calibration procedure:

1. Install the panel in its intended location.
2. Reset the power supply (by switching it back on).

Note: Do not touch the front of the device for the first 3 seconds after start-up. During this time, the sensors stabilise in relation to the ambient conditions.

Personalisation

The symbols of the module's sensor fields are engraved in accordance with the client's design. The colour of the module's front glass and the chamfer's width of the glass edge are also subject to personalisation.

Buzzer

The module is equipped with a buzzer that allows it to generate sound signals. By default, each press of the panel's sensor field triggers a short buzzer beep.

Example application

- Switching on lighting or any other devices connected to the building automation system;
- Providing information on the status of lighting or other devices;
- Generation of audible notifications of events observed by the system;
- Presentation of information on the display, e.g:
 - date and time.

Installation

The panel can be mounted on a surface or it can be flush with the wall surface. Depending on the expected effect, a flush mounting plate or surface mounting frame is used. The frames are available in two variants - for panels with glass with and without chamfered edges.

Both in the case of flush and surface mounting, a standard junction box must be located behind the panel, inside which there will be connectors for the CAN bus and the 1-Wire interface. In the case of flush mounting, the box must be embedded in the wall at a greater than standard depth.

A detailed description of the installation of panels in both variants is available in the appropriate installer guides published on the [Ampio knowledge base](#) website.

Device status LEDs

On the back of the device, there is one red LED indicating the communication status within 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 smart modules,
- three regular flashes every 1 sec. – the module cannot send information to the CAN bus;

After the device is embedded in the mounting plate or frame, the LED is hidden.

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.

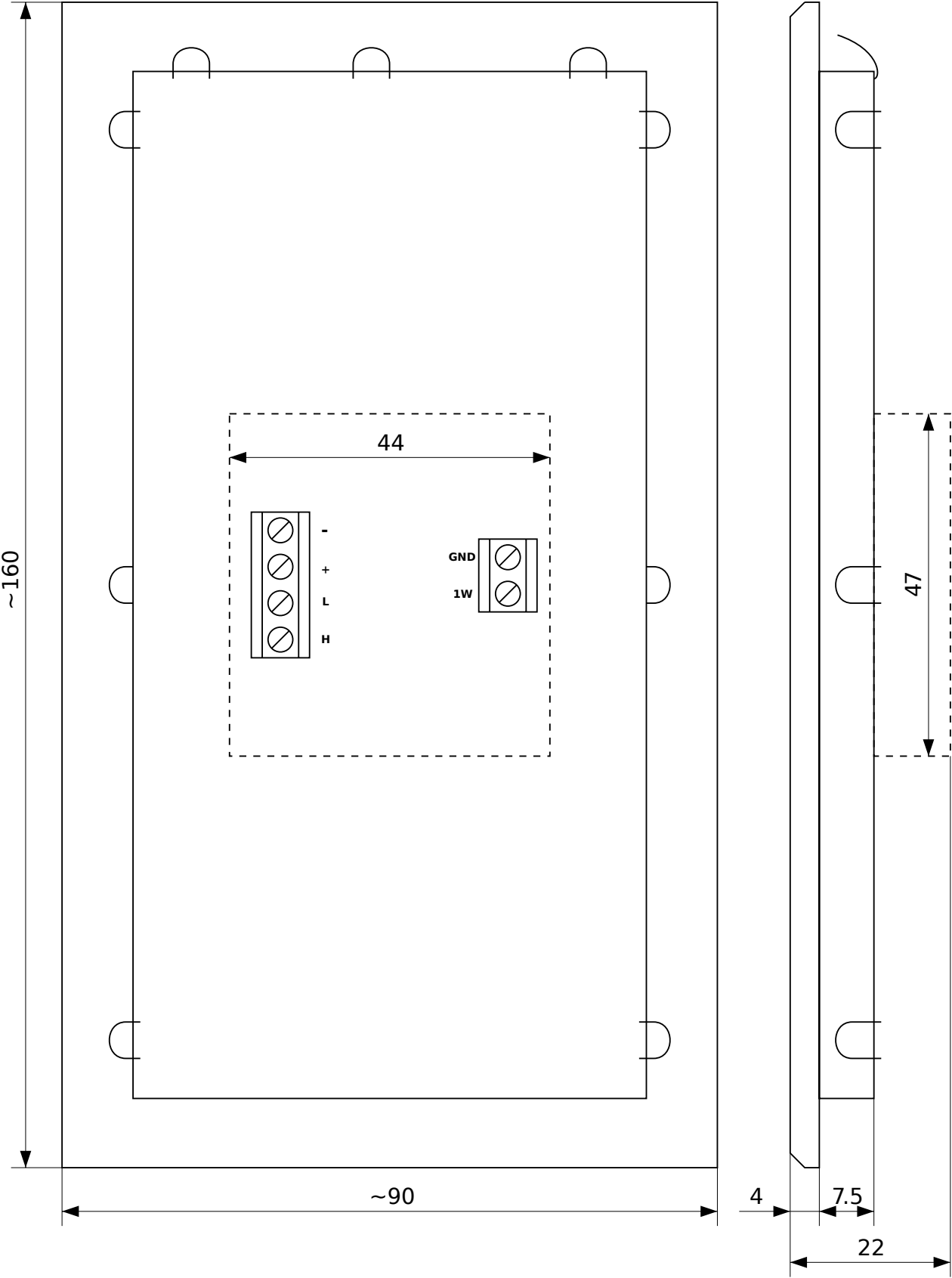
Module dimensions

Dimensions expressed in millimeters.

The panel consist of a glass front and a body with connectors and mechanical interfaces meant for mounting with the use of mounting plates or surface frames. The body is mounted in the center of the rear surface of the glass front with a margin of error appropriate for the production process.

The exact dimensions of the module front depend on the variant of the glass edge finish selected when placing an order.

In the dimensions diagram, the dashed line marks the area where the connectors of the device and its other elements protruding from the body are located. The outline of this area corresponds to the central opening in mounting plates and frames for panels. In the actual module, the CAN bus and 1-Wire interface connectors may be located in a different place than in the figure below, but within the marked area.



Connection diagram

The location of the device connectors on the connection diagram is indicative - in the physical module their location may be different.

