

The JA-111TH bus temperature detector

The JA-111TH is a component of the **JABLOTRON** system. It serves for temperature measurement and forwarding measured data to MyJABLOTRON. MyJABLOTRON manages and stores measured data for further use, for instance activating a selected PG output, the SMS reporting of exceeding temperature limits or to create graphs of measured temperatures. All functions are programmable directly in MyJABLOTRON. The PG control function can be assigned to a maximum of 8 thermometers per control panel. The function depends on the system's connectivity to the JABLOTRON Cloud. This product should be installed by a trained technician with a valid certificate issued by an authorised distributor.

Installation

Select the installation place according to the temperature measuring requirements. It is not recommended to install the detector near heat sources affecting measuring (heaters, electric fans, air conditioning outlets, fireplace inserts, etc.). The detector can also be installed in an outdoor environment but it has to be placed into a suitable box with a minimum of IP65 housing, the JA-192PL-A for example.

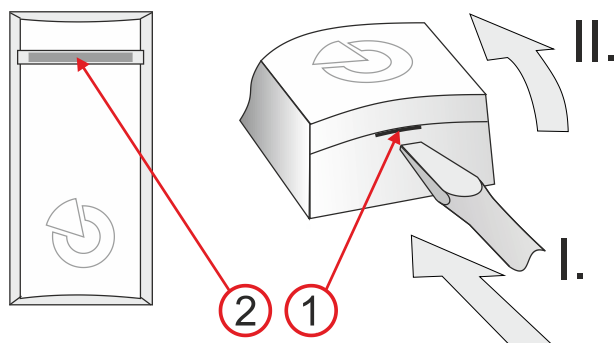


Figure 1: 1 – cover tab; 2 – LED indication

1. Open the detector cover by pushing the tab (1).
2. Punch through the holes for the BUS cable in the plastic base.
3. Insert the BUS cable and attach the plastic base to the required place using screws.



When connecting the detector to the system BUS, always switch the power off.

4. Connect the BUS cables to the terminals (6).

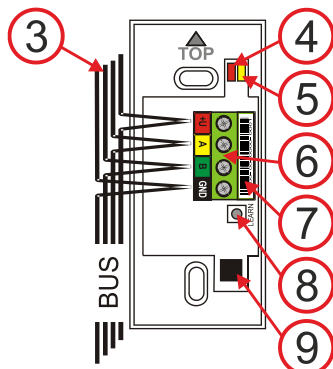


Figure 2: 3 – Jablotron system BUS; 4 – red LED indicator; 5 – yellow LED indicator; 6 – BUS terminals; 7 – production code; 8 – LEARN (enrollment) button; 9 – measurement sensor

5. Proceed according to the control panel installation manual. Basic procedure:
 - a. When the device is switched on, the yellow LED (5) starts flashing repeatedly to indicate that the module has not been enrolled to the system.
 - b. Go to the **F-Link** software, select the required position in the **Devices** tab and launch the enrollment mode by clicking on the **Enroll** option.
 - c. Click on **Scan/add new BUS devices**, select the JA-111TH detector and double-click on it to enrol it - the yellow LED indicator (5) will shut down.
6. Close the detector cover.

Notes:

- Enrolling the detector to the system is possible by pressing the **LEARN** button when the enrollment mode is activated or by entering the production code (7) via the **F-Link** software. All digits in the production code are required (1400-00-0000-0001).
- If you want to remove the detector from the control panel, erase it from its position.

Functions

Depending on the type of keypad, the current temperatures of up to two thermometers can be displayed on the home screen of the display. See the JA-10xK installation manual.

The detector has a fixed antifreeze temperature of +6 °C with ±1 °C hysteresis. Therefore the detector has an activation temperature of +5 °C. The deactivation temperature is +7 °C.

Using the F-Link software, it is possible to configure the JA-10xK control panel's reaction (PG output, 24h alarm, etc) to react to temperature detector activation. Thus the selected PG output is controlled directly by the control panel.

All thermometer functions can be fully used in MyJABLOTRON. The registration procedure is described in the *Control panel installation manual*.

Note:

- The red LED (4) always flashes when the periodical temperature is measured and when the activation or deactivation temperature (6 °C) has been reached.

MyJablotron

All thermometers and their measured values are stored and shown in the **Thermostats and Thermometers** tab in MyJABLOTRON. The temperatures are stored automatically every 5 minutes. The temperatures are displayed in a graph with an adjustable timeline. It's possible to export data from the graphs in various formats for further processing. The graph function enables you to compare temperatures from two thermometers or different time periods (only available in the MyJABLOTRON mobile app).

The app offers the following functions:

PG control by measured temperature

Using MyJABLOTRON, it's possible to configure activation of a PG output by a temperature measured by the thermometer. The selected PG output is controlled remotely from MyJABLOTRON therefore stable external communication is necessary for this function to work properly. If this function is selected, the user can use a slider to configure the desired temperature which will activate the PG output. These settings are located in the **Thermostats and Thermometer** tab.

Linking the thermometer with a PG output is done by a service technician in the **Installation management** section of the MyCOMPANY app. Select the control panel, enter the **Devices** tab, press the symbol of a gearwheel on the thermometer and select a PG output which should be controlled by the measured temperature. Use the slider to configure the desired activation temperature. This configured link is indicated by a PG symbol at the thermometer's position.

Warning! The controlled PG output must be configured to have **ON/OFF** or **Impulse** functions (configurable in the F-Link software).

Notes:

- Establishing the link and controlling the PG output by the measured temperature can also be done in the MyCOMPANY and MyJABLOTRON mobile app.
- This function can be configured for a maximum of 8 thermometers enrolled to the control panel (the sum of wireless and BUS thermometers).
- Connection via GSM and LAN communicators is required in order to make sure that PG output control from MyJABLOTRON works properly.
- Due to fact that PG outputs are controlled via an external app, **we cannot guarantee proper functioning under all circumstances**. When the connection with MyJABLOTRON is lost, the status of the PG output stays unchanged until the connection is re-established. This is why we recommend using a controlled PG output along with the **IMPULS** function set to an activation time of 2:00:00. The PG output will be controlled by commands from MyJABLOTRON. If the connection is lost, activation of the PG output will be limited by the activation time of the **IMPULS** function.
- The activation hysteresis of a PG output is +/- 1°C. The PG output will be activated when the measured temperature is 1°C lower than the activation temperature. Deactivation will occur when this temperature is exceeded by 1°C.

Notifying the user when the temperature exceeds the allowed range

You can set a higher and a lower temperature limit and a certain period of temperature monitoring for a selected thermometer in **Settings → Thermometer notification**. When one of these limits is exceeded or gone below then it's reported by an SMS, an e-mail or push notifications if you use the MyJABLOTRON app.

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Technical specifications

Power	from the control panel bus 12 V (9...15 V)
Current consumption in standby mode	3.3 mA
Current consumption for cable selection	5 mA
Dimensions	55 x 27 x 16 mm
Weight	12 g
Temperature measurement range	-20 to +70 °C
Operational temperature range	-20 to +70 °C
Temperature measurement range accuracy	±0.5 °C
Also complies with	EN 50130-4, EN 55032, EN IEC 63000
Recommended screw	2x  ø 3.5 x 40 mm (countersunk head)



JABLOTRON a.s. hereby declares that the JA-111TH is in a compliance with the relevant Union harmonisation legislation: Directives No: 2014/30/EU, 2011/65/EU. The original of the conformity assessment can be found at www.jablotron.com - Section Downloads.



Note: Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling. Please return the product to the dealer or contact your local authority for further details of your nearest designated collection point.

