The JA-111TH BUS temperature detector

*The JA-111TH is a component of the **JABLOTRON 100** system. It serves for temperature measurement and forwarding measured data to the Web Self Service (WSS). The WSS manages and stores measured data for possible future use. For instance SMS reporting of exceeding temperature limits or for creating graphs of measured temperatures. These functions are programmable in the WSS. The detector 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 (heaters, electric fans, air conditioning outlets, fireplace inserts,…). They could influence the measuring. 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 covering.
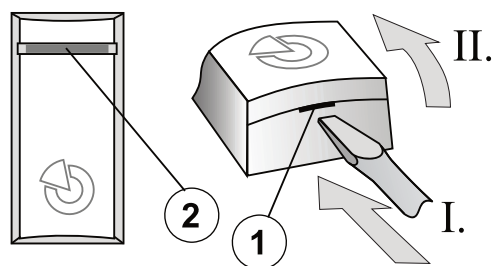

Figure 1: 1 – cover tab; 2 – LED indication

1. Open the detector cover (by pushing the tab – 1).
2. Punch though the holes for the screws and the cable in the plastic base. 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.**

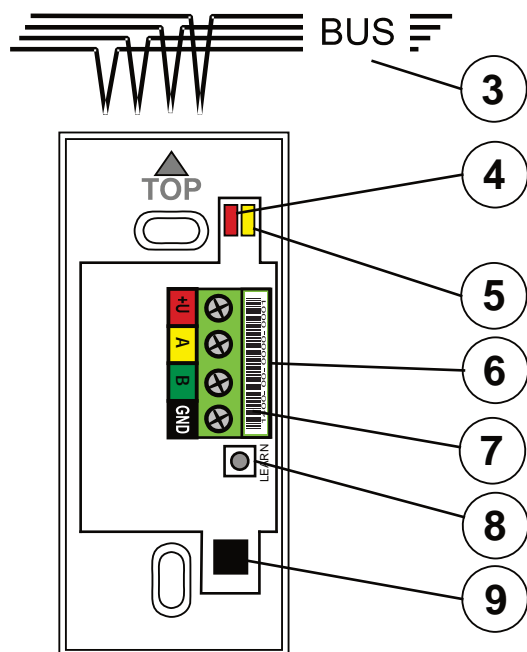3. Connect the BUS cables to the terminals (6).

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

4. 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 into 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. Press the *LEARN (enrollment) button* (8) in the detector – the detector is thus enrolled and the yellow LED indicator goes off. The detector occupies only 1 position in the system.
5. Close the detector cover.

Notes: *Enrolling the detector to the system is possible by entering the production code (7) via F-Link software. All digits in the production code are required (1400-00-0000-0001).*
The detector has LED indication which can be enabled / disabled by the F-link software item Internal settings.

Cooperation with the Web Self Service

After logging in to the WSS or the My Jablotron application are loaded the states of all thermometers enrolled to the system are loaded in the *Thermometers* tab. Loading the temperatures is done automatically in 5 minute intervals. For the JA-111TH BUS detector you can get the current temperature via WSS at every required position when you click on the thermometer icon. Then it is also possible to show the graph of measured temperatures and the required time line. In the WSS there is the item **Settings / Thermometer notification** where you can set a higher and a lower limit for every single thermometer. When one of these limits is exceeded or gone below then a report from WSS is sent. You can choose if by SMS or an e-mail. Following the temperatures can be set for some part of a day.

Binding of PG outputs

The detector has a fixed working temperature of +6°C with ±2°C hysteresis (i.e. the detector has an activation temperature of +5°C and from this temperature down it is switched on. The deactivation temperature is +7°C and from this temperature up it is switched off.). By F-Link software, activations / deactivations at those temperatures can be set for each JA-100 system:
- *Devices / 24 hours*
- *Devices / Special reports*
- *PG outputs / Activation / By a device*

Note: the red LED (4) always blinks when the periodical temperature is measured or when the activation or deactivation temperature has been reached.

Technical specifications

Power	from the control panel BUS 12 V (9…15 V)
Current consumption in standby mode	5 mA
Current consumption for cable choice	5 mA
Dimensions	55 x 27 x 16 mm
Temperature measurement range	-20 to +60 °C
Operational temperature range	-20 to +60 °C
Temperature measurement range accuracy	±0.1 °C
Also complies with	EN 50130-4, EN 55022

CE JABLOTRON ALARMS a.s. hereby declares that the *JA-111TH* is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC, 2011/65/EU. The original of the conformity assessment can be found at www.jablotron.com – Technical Support section

Note: Although this product does not contain any harmful materials we suggest you return the product to the dealer or directly to the producer after use. For more detailed information visit www.jablotron.com