

The JA-110TP BUS indoor thermostat

Switching to the economical temperature when the system is set: The thermostat in the *Program* mode can react to setting/unsetting the section, to which it is assigned. When the section is set, it switches at once to the *Economical temperature* (if the thermostat has already heated to the *Economical temperature*, nothing changes). The thermostat still follows a pre-set timed heating plan and the PG output switches on when it goes from the *Economical* to *Comfort temperature* even if the section is already set. So the heating can be activated earlier than when the users come back home and unset the system. It is valid for a fully and partially set sections. All settings can be performed in the MyCOMPANY.

Installation

The product can only be used in an indoor environment. Install the thermostat 1.5 m above the floor in a place where there is good natural air circulation. Don't install the thermostat where the measuring can be influenced by drafts, sunlight, heaters or any other undesirable effects.

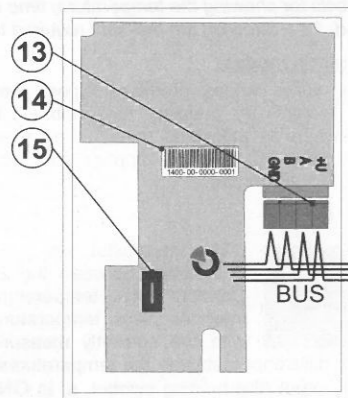


Figure 4: 13 – Terminals for BUS to be connected;
14 – production code; 15 – Tamper contact

Installation procedure:

1. Release the front thermostat housing by pressing the tab (2), by screwdriver for instance.
2. Punch the hole for cables.
3. Install the rear part of the thermostat at the chosen place (tab facing down).
4. Connect the BUS cables to the terminals (13), it can be removed from the PCB for a more comfortable installation and plug it back in afterwards.



When connecting the module to the system, always switch the power off.

5. Put back the front thermostat part and close it.
 - a. Follow the control panel installation manual. Basic procedure:
 - i. When the power is turned on, the thermostat indicates by flashing the exclamation symbol (3) that it has not been enrolled to the system yet.
 - ii. Go to the *F-Link* software, select the required position in the *Devices* tab window and launch enrollment mode by clicking on the *Enroll* option.
 - iii. Click on the option *Scan/Add new BUS device* and by double clicking select the required thermostat or press the knob (1) on the thermostat – the device is thus enrolled and the exclamation mark goes off.
6. Using F-Link SW and the option *Internal setting* at the required thermostat, select the PG output which will be controlled and other system settings. See more details in the chapter *Setting the thermostat properties*.
7. Other settings can be done by the MyJABLOTRON application in the MyCOMPANY module. When the system is not registered yet, it must be registered first (if needed ask your authorised distributor for help). If the system is already registered, and only the thermostat has been added then leave the service mode to upload new system configuration to MyJABLOTRON (usually within 15 minutes).
8. When registration is finished, pre-set the thermostat via the MyCOMPANY application, see the chapter *Setting the thermostat properties in MyCOMPANY*.

Notes:

- The thermostat can also be enrolled to the system by entering its production code (14) in the F-Link software. All digits of the production code are required. (Example: 1400-00-0000-0001).

Setting the thermostat properties in the F-Link software

Basic settings can be done in the F-Link SW in the internal settings of the specific thermostat. Where the following parameters can be set:

Controls PG: (*No) Select which PG output will be controlled by the thermostat. The reaction of the PG has to be set to ON / OFF and must not be inverted. **Thermostat can control only one PG output.**

Reaction to high temperature: (*None) The selection of the offered options determines the reaction when a *high temperature* is reached. *Fire alarm, Fire instant, Report A, Report B, Report C, Report D, Overheating or None.*

Reaction to low temperature: (*None) The selection of the offered options determines the reaction when a *low temperature* is reached. *Report A, Report B, Report C, Report D, Freezing or None.*

High temperature: (*60 °C) The temperature can be set in the range of -9.9 °C to +70 °C. When a pre-set temperature is exceeded, the selected reaction is triggered. The value of the high temperature always has to be higher than the low temperature.

Low temperature: (*3 °C) The temperature can be set in the range of -10 °C to +70 °C. When the pre-set temperature is undershot, the selected reaction is triggered.

Setting the thermostat properties in MyCOMPANY

For the settings of all thermostat parameters it is necessary to have the JABLOTRON 100+ system registered – see the *Installation* chapter to get the details. A service technician pre-sets the thermostat in the MyCOMPANY (it is supported web and mobile applications).

In the MyCOMPANY, open *Installation management*. At the selected system on the *Devices* tab select the cogwheel symbol at the required thermostat position. The setting window with following parameters is open:

Highest and lowest temperature configurable by the user (-10 °C to +40 °C).

Comfort and Economical temperatures: are pre-settable by the user in the range of the *lowest temperature limit* to the *highest temperature limit*.

Heating plan: can be the same for the whole week, different for week days and the weekend or individual for every day. Using the + button add individual intervals when the thermostat should heat to the *Comfort temperature*. If an interval should be erased, click on it and when the - symbol appears, by clicking on it the selected interval can be erased.

Activate economical temperature when: None / Partially set / fully set section to which the thermostat has been assigned.

Temperature in Standby mode: (from -10 °C to +15 °C) this determines the temperature which is going to be maintained in *Standby* mode or when *Blocking* is activated.

High temperature (from -9.9 °C to +70 °C), see the chapter called *Setting the thermostat properties in the F-Link software*.

Low temperature (from -10 °C to +70 °C), see the chapter called *Setting the thermostat properties in the F-Link software*.

Hysteresis (from 0 °C to 5 °C) For example, if it is set 1 °C hysteresis and the required temperature is 30 °C, then the PG output is switched on when the temperature drops below 29 °C and the PG output is switched off when it exceeds 30 °C.

Temperature correction: (from -12.8 °C to +12.7 °C) This option can fix any possible thermostat measurement deviation from the real temperature in the premises.

Tamper contact: – This option enables / disables the functioning of the built-in tamper contact.

MyJABLOTRON

In the MyJABLOTRON application thermostats are shown at **Thermostats and thermometers**, where all the measured values of all thermostats and thermometers enrolled to the system are saved. This data is stored and available for future use. Reading the temperatures is done automatically at a 5 minute interval.

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For every thermostat:

- The current status is displayed (Name, Heating/Temperature reached, Current temperature, Required temperature, Mode, Graph of measured temperature)
- The temperature can be temporarily changed
- The operation mode can be changed (Program, Manual, Standby)

Temperatures are shown in a graph in the selected time period and can be exported in various formats for future processing.

The user has authorization to edit some settings directly in the MyJABLOTRON application. Select **Settings** → **Thermostats** to open settings window with following parameters:

Basic settings:

Comfort and Economical temperatures

Heating plan

Advanced settings:

Temperature in Standby mode

Hysteresis (0 – 5 °C)

Temperature correction

For description of every single option see the chapter called *Setting the thermostat properties in MyCOMPANY*.

In **Settings** → **Temperatures** for a selected thermostat the higher and lower limits and the time period in which the temperature is monitored can be set. When the temperature overshoots or undershoots the pre-set limit, a notification is sent by SMS, e-mail or as a PUSH notification for the smart application.

FW upgrade

The thermostat supports the firmware upgrading. It can be performed by *F-Link* software in *Service* mode.

1. Go to *F-Link: Control panel – Update firmware*. In the offered list the JA-110TP should appear. If the F-Link SW detects the existence of newer firmware than that in the thermostat, it is automatically checked (ticked) for upgrading.
2. Press the OK button to perform the update of the selected devices.
3. When the update is finished, check the internal settings of the thermostat on the *Devices tab – Internal settings*.
4. Test the thermostat's functions.

Technical specifications

Power	from control panel BUS 12 V (9...15 V)
Current consumption in standby mode	1,5 mA
Current consumption for cable choice	1,5 mA
Dimensions	66 x 90 x 22 mm
Weight	60 g
Operational temperature range	-10 °C to +70 °C
Measuring range	-10 °C to +70 °C
Temperature regulator class	I. (according to (EU) no. 813/2013)
Contribution of regulator for seasonal efficiency	$\eta_s = 1\%$ (according to (EU) no. 813/2013)
Operational environment according to	EN 50131-1 II. Indoor general
Temperature measuring sensitivity	±0.1 °C
Also complies with	EN 50130-4, EN 55022



JABLOTRON ALARMS a.s. hereby declares that the JA-110TP is in a compliance with the relevant Union harmonisation legislation: Directives No: 2014/30/EU, 2009/125/ES, 2011/65/EU. The original of the conformity assessment can be found at www.jablotron.com - Section Downloads.



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.