

JA-151TH Wireless temperature detector

The JA-151TH is a component of the **JABLOTRON** system. It serves for temperature measurement and forwarding measured data to MyJABLOTRON. MyJABLOTRON analyses and stores measured data for further use for instance 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 maximum of 8 thermometers per control panel. This function depends on 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.

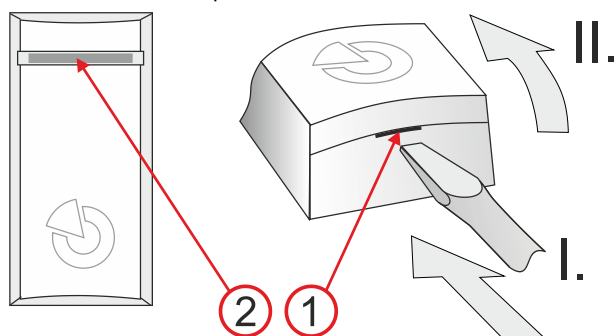


Figure 1: 1 – cover tab; 2 – LED indication

1. Open the cover by pushing the tab (1).
2. Attach the plastic base to the required place using screws.
3. Follow the instructions in the control panel installation manual.
Basic procedure:
 - a. 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.
 - b. The enrollment signal is transmitted when the battery is inserted into the detector.
4. Close the detector cover.

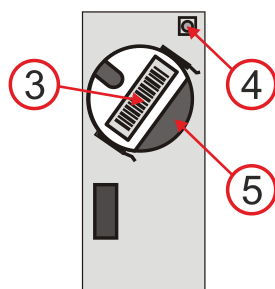


Figure 2: 3 – serial number; 4 – activation button; 5 – battery

Note:

- Enrolling the detector to the system is also possible with active enrolment mode by entering the serial number (3) via the F-Link software. All digits in the serial number 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*.

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.

Battery replacement

The system sends a report automatically when the battery is low. During the battery replacement it is not necessary to switch the system to service mode (this detector has no tamper contact).

After taking out the battery, presses the activation button (4) to discharge the capacitors in the detector and then insert a new battery.

Apply the same procedure if you need to enrol the detector to a different control panel.

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Technical parameters

Power	1x Lithium battery type CR2032 (3.0 V / 0.2 Ah) Please note: Battery is not included.
Quiescent current consumption	5 μ A
Maximum current consumption	34 mA
Typical battery lifetime	about 2 years
Low battery reporting	< 2.3 V
Communication band	868.1 MHz, JABLOTRON protocol
Maximum radiofrequency power (ERP)	< 25 mW
RF range	up to 200 m (open area)
Dimensions	55 x 27 x 16 mm
Weight (without battery)	13 g
Temperature measurement range	-20 °C to +70 °C
Operational temperature	-20 °C to +70 °C
Temperature measurement range accuracy	± 0.5 °C
Average operating humidity	75% RH, non-condensing
Also complies with	ETSI EN 300 220-2, EN 50130-4, EN IEC 62368-1, EN 55032, EN IEC 63000
Can be operated according to	ERC REC 70-03
Recommended screw	2x  $\varnothing$ 3.5 x 40 mm (countersunk head)



JABLOTRON a.s. hereby declares that the JA-151TH is in a compliance with the relevant Union harmonisation legislation: Directives No: 2014/53/EU, 2014/35/EU, 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.