

# The JA-151TH Wireless temperature detector

The JA-151TH is a component of the **JABLOTRON 100** system. It serves for temperature measurement and forwarding measured data to MyJABLOTRON. MyJABLOTRON analyses and stores measured data for possible future use. For instance the SMS reporting of exceeding temperature limits or for creating graphs of measured temperatures. These functions are programmable in MyJABLOTRON. The detector takes up one position in the control panel. It 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.

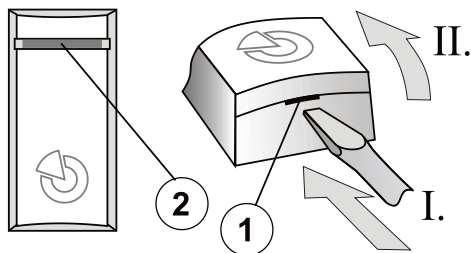


Figure 1: 1 – cover tab; 2 – LED indication

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.

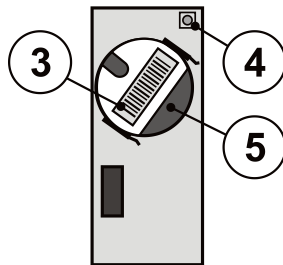


Figure 2: 3 – production code; 4 – activation button; 5 – battery

### Note:

- Enrolling the detector to the system is also possible with active enrolment mode by entering the production code (3) 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

For the ability to display current temperatures on the keypad's display, see the JA-10xK installation manual.

If the control panel is registered in MyJABLOTRON, all thermometers enrolled in the system are shown in the MyJABLOTRON web account and the MyJABLOTRON app. Measured values from all the thermometers are stored and available in the **Thermometers** tab.

Loading the temperatures is done automatically and continuously in 5 minute intervals. Temperatures are displayed in a graph with the required time line and it's possible to export them in other formats for further processing.

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

The detector has a fixed working antifreeze temperature of +6 °C with ±1 °C hysteresis. Therefore 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.

In the control panel it is possible by the F-Link software to configure PG output or other reactions such as 24h alarm, etc. to follow the antifreeze temperature.

The detector has a Supervision function enabled by default.

### Note:

- The red LED (2) flashes to indicate pressing the button (4) and when the activation or deactivation temperature has been reached. If the battery is low, it flashes 2x/min.

## Battery replacement

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

Battery replacement – 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 enroll the detector to a different control panel.

## Technical parameters

|  |  |
|--|--|
| Power                                  | 1x Lithium battery type CR2032 (3.0 V/0.2 mAh)                   |
|  | Please note: Battery is not included                             |
| Typical battery lifetime               | about 2 years  |
| Low battery reporting                  | < 2.3 V  |
| Communication band                     | 868.1 MHz, JABLOTRON protocol                                    |
| RF range                               | up to 200 m (open area)  |
| Dimensions                             | 55 x 27 x 16 mm  |
| Weight                                 | 13 g   |
| Temperature measurement range          | -20 to +60 °C  |
| Operational temperature                | -20 to +60 °C  |
| Temperature measurement range accuracy | ±0.5 °C  |
| Also complies with                     | ETSI EN 300 220, EN 60950-1, EN 50130-4, EN 55022, ERC REC 70-03 |
| Can be operated according to           |  |



JABLOTRON ALARMS a.s. hereby declares that the JA-151TH is in compliance with the relevant European Union harmonisation legislation: Directives No: 2014/53/EU, 2014/35/EU, 2014/30/EU and 2011/65/EU. The original of the conformity assessment can be found at [www.jablotron.com](http://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](http://www.jablotron.com)