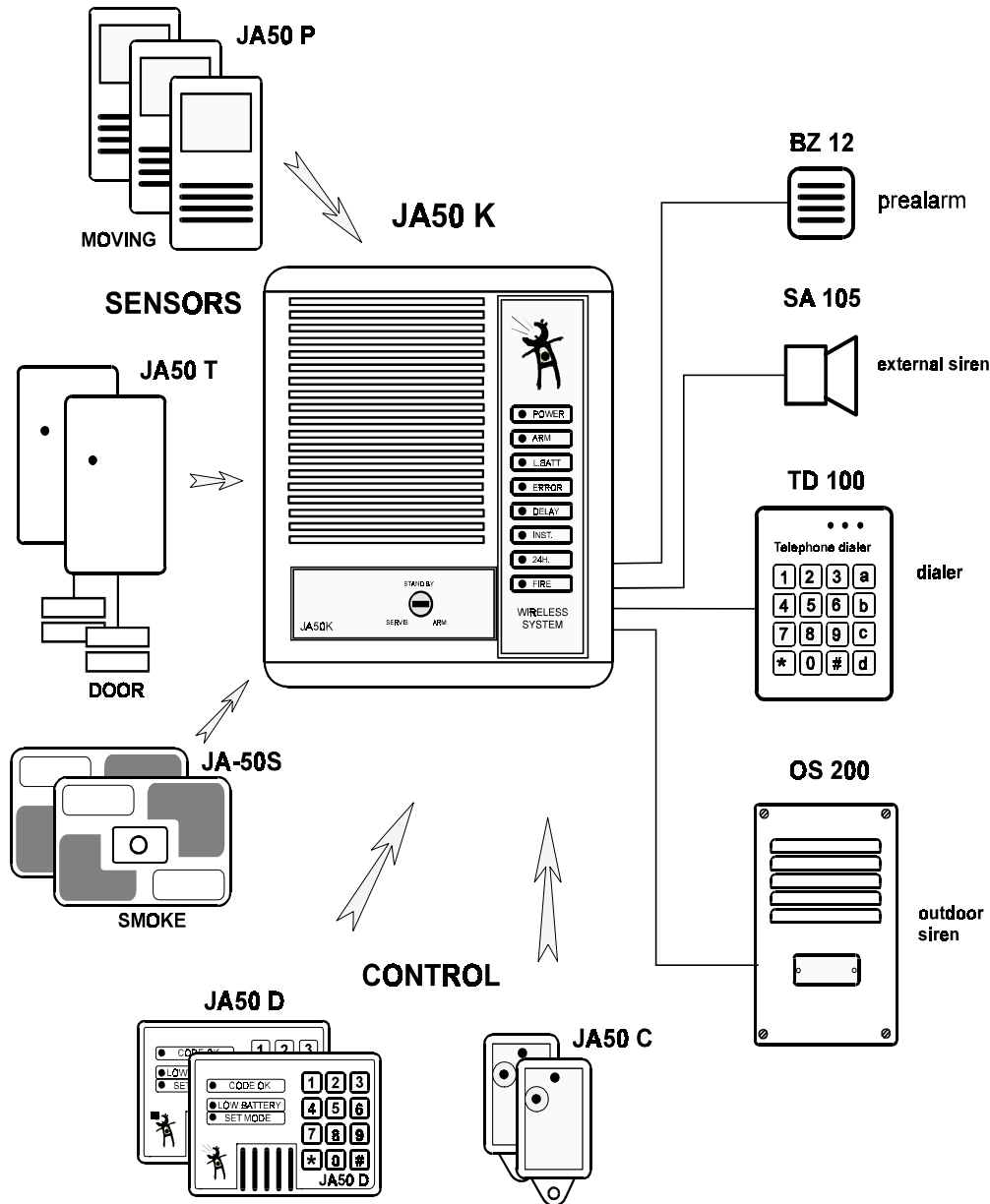


# Universal sensor transmitter

## JA - 50T

v. 1.4 - MODEL BL 612



### DESCRIPTION:

This universal transmitter can change any standard sensor into a wireless detector. For example you can combine it with the SA-200 magnetic switch to create a wireless door opening detector or with a GS-100 for a wireless gas leak detector. You can use an unlimited number of JA-50T transmitters in your JA-50 system.

There are inputs for two loops. One is a 24H loop and the second one can be set as an Instant, Delay or Fire loop. Tamper protection is also provided. The transmitter is powered by a 9V battery. Jablotron recommends that you use only high quality alkaline batteries.

### Specifications:

Input loops :	2
Input 24H :	24H loop - sensitive to opening or closing
Input INP :	optional INST/DEL/FIRE loop - sensitive to opening or closing
Operating voltage:	9V battery
Operating current:	30uA (stand by)
House code:	8bits
Sleeping time between two transmissions:	5 min.
Working distance:	60m (open area)
Working frequency:	433.92 MHz
Used transmitter:	model TX-3

### Installation:

Read the WIRELESS ALARM SYSTEM JA-50 INSTALLATION MANUAL before installation. The control panel must be switched to the SERVICE position before installation of the JA-50T transmitter .

Open the cover by pressing the lock on the top of the unit. Remove the screw on of the PCB and remove the PCB from the housing plate. Route the wires from the sensor through the large oval hole in the bottom of the rear housing plate. Attach the plate to the desired location using screws. (Do not install the transmitter close to large metal objects). Reinstall the PCB back into the housing.

### Wiring:

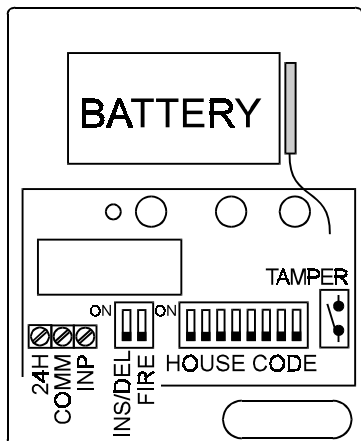
There are three terminals available on the PCB.

**COMM** is a common input terminal

**INP** - connect normally closed (or normally opened) contacts of a sensor between INP and COMM terminals. Signal can be sent to the INSTANT, DELAY or FIRE loop. This terminal is sensitive to a change in the input (opening or closing of the loop).

**24H** - connect normally closed (or normally opened) contacts of a sensor between 24H and COMM terminals. Signal from this input will go to 24Hr. loop. The terminal is sensitive to a change in the input (opening or closing of the loop).

If you do not use one of the input (**24H** or **INP**), you can leave it unconnected.



**Note:** More sensors can be connected to each transmitter input (serial combination of N.C. contacts or parallel combination of N.O. contacts). Only dry contacts can be connected to the input terminals of JA-50T transmitter. No external voltage can be connected to these terminals.

Use an external power supply, if the detector you are going to connect with JA-50T needs a power supply.

### SETTING:

The house code must be the same in all detectors of your system. There are 8 DIP switches marked HOUSE CODE on the right side of the board. Use these to insure that the code is the same in all sensors.

The JA-50T universal transmitter is equipped with the following other DIP switches:

**INST/DEL** - you can address the signal from the **INP** terminal to the Instant (INS) or to the Delay (DEL) zone of the control panel (the fire switch must be in OFF position).

**FIRE** - if you set this switch "ON" (upward), triggering of the **INP** terminal will activate the FIRE zone on the control panel. If FIRE switch is ON, the INST/DEL switch has no function.

Triggering of the **24H** terminal or the tamper switch will always result in a signal being sent immediately to the 24H control panel zone.

### Testing:

The control panel should be switched to the SERVICE mode for testing.

Connect a 9V battery to the JA-50T transmitter. Built-in LED will go off for 10 sec. and the control panel beeps 3 times. Close the transmitter's housing. Test the function of the sensors connected to the JA-50T transmitter. The built-in LED indicates each signal transmission. The JA-50K control panel confirms signal receiving with a beep and flash of corresponding zone LED.

**Warning:** The JA-50T transmitter has a built-in energy saving function, which is activated automatically 10 minutes after closing of the transmitter cover. After this period the LED is switched off completely and the signal from the transmitter can be transmitted to the control panel only if 5 minutes elapsed from the previous transmission as a minimum. If you need a longer testing period, simply open and close the housing again (you will get next 10 minutes of testing).

This means that in all sensors connected to INP terminal can not trigger alarm within 5 minutes from previous triggering.

**NOTE:** Tamper switch and 24H input always trigger the 24H zone immediately.

**Switch the control panel to stand-by position after the installation and testing.**

### Low battery indication:

Each transmitter checks its own battery condition. If it is necessary to replace a battery, the transmitter will inform the control panel. A blinking L.BATT LED on the control panel indicates that a transmitter or detector needs a new battery. To find this detector is easy: The built in LED in all detectors is permanently off. However, if the detector (transmitter) needs a battery replacement, the LED in it will flash if you trigger the sensor. To check if any JA-50T transmitter needs a new battery, first switch the control panel to the SERVICE position. Then you only have to trigger a sensor which is connected to this transmitter (for example open the door if magnetic door switch is connected). If the transmitter's LED flashes, replace the battery in this transmitter.

**NOTE:** We recommend that you use only high quality alkaline batteries. The average life time of a high quality battery in a detector should be a few months.

**Warning :** When you are going to open the transmitter's cover, don't forget to switch the control panel to the SERVICE position.