INSTALLATION GUIDEBOOK

JABLOTRON ACADEMY

JABLOTRON CREATING ALARMS

WELCOME TO THE JABLOTRON FAMILY

We are delighted that you have chosen to enter our world. Together, we'll make a great team - we'll take care of the development and production of innovative alarms, and you can make sure they're installed professionally. To make your business operations and first installations of JABLOTRON alarm systems as smooth as possible, we have designed this Guidebook, which serves as an at-hand-assistant.

Inside you will find a summary of the most important points not to forget when designing and providing your installations. You will also learn which devices and software are necessary for different operations and how to proceed with them. In addition to that, we have added several extra tips to make your work even easier.

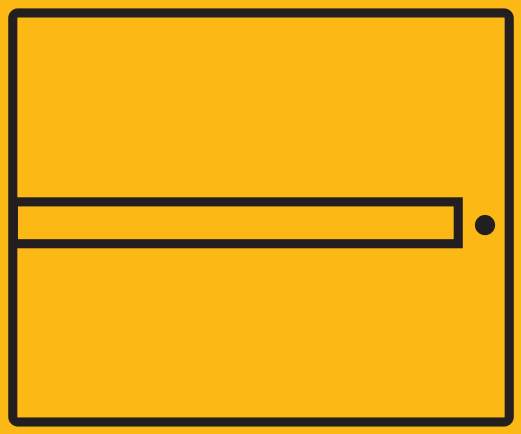
EXPLANATORY NOTES

Installation

Software & Devices

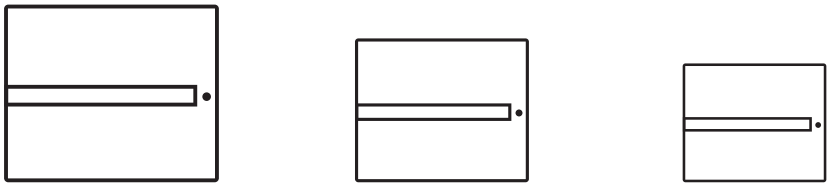
Tips

This guidebook does not substitute the installation manual.



CONTROL PANELS

CONTROL PANELS



Features	JA-107K	JA-103K	JA-100K
Devices	230 (wireless 1-120)	50	32
Users	600	50	32
Sections	15	8	4
PG	128 (wireless 1-32)	32	4
Calendars	64	20	10
Reports	50	8	8
Intended for	bigger installations wired/wireless	smaller installations mainly wireless	small installations

OFF-GRID SYSTEMS:

12V can be connected directly to the PCB of JA-107K.

CONNECTED DIRECTLY TO 230 V
(no socket)

PLACED IN A SECURED PLACE
(in instant zone)

SUFFICIENT GSM SIGNAL IS NECESSARY
(external antenna can be used)

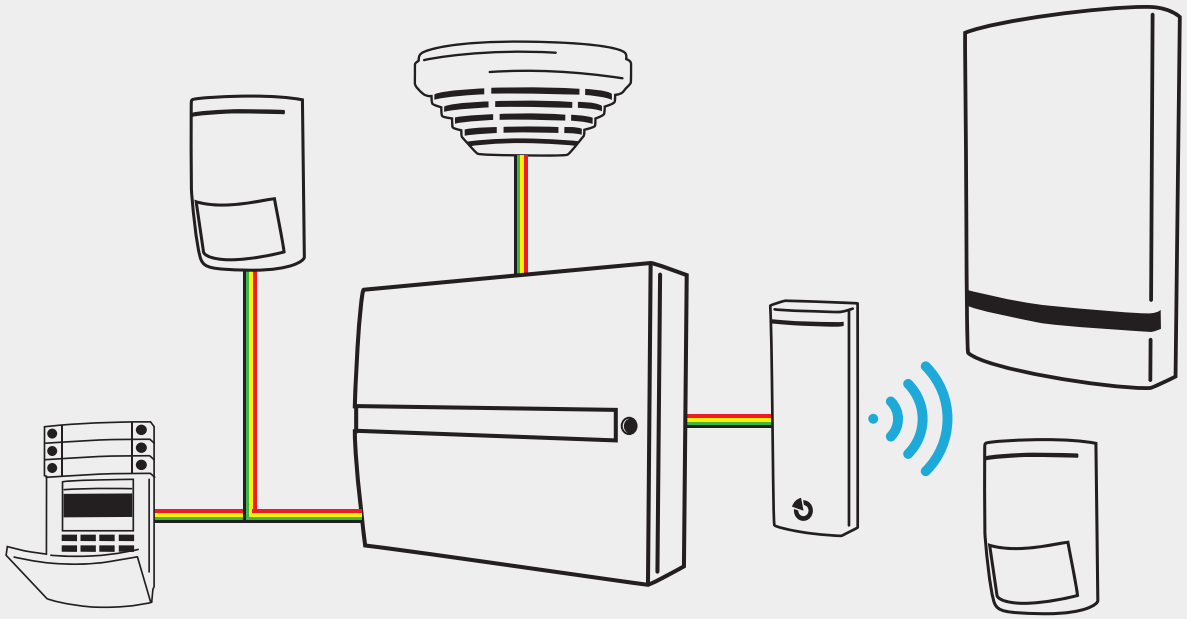
LAN CONNECTION AVAILABLE

LAPTOP WITH WINDOWS

F-LINK SOFTWARE
(available in MyCOMPANY)

USB CABLE

BUS INSTALLATION



Tree, star or combination of both topologies is possible.

No termination of the BUS line is needed.

Split the BUS in a detector or use a BUS splitter.

500 m of cable per BUS terminal is maximum.

Use **JA-120Z BUS booster** in bigger hard-wired installations to supply more devices.

Install a **JA-110T – BUS isolator** if you run the BUS outside the secured building.

I-BUS in JA-103K is intended only for radio.

BUS 3 can be used with JA-110Z-D.

The BUS cable must not be connected in such a way as to create a closed loop.

INSTALLATION CABLES:

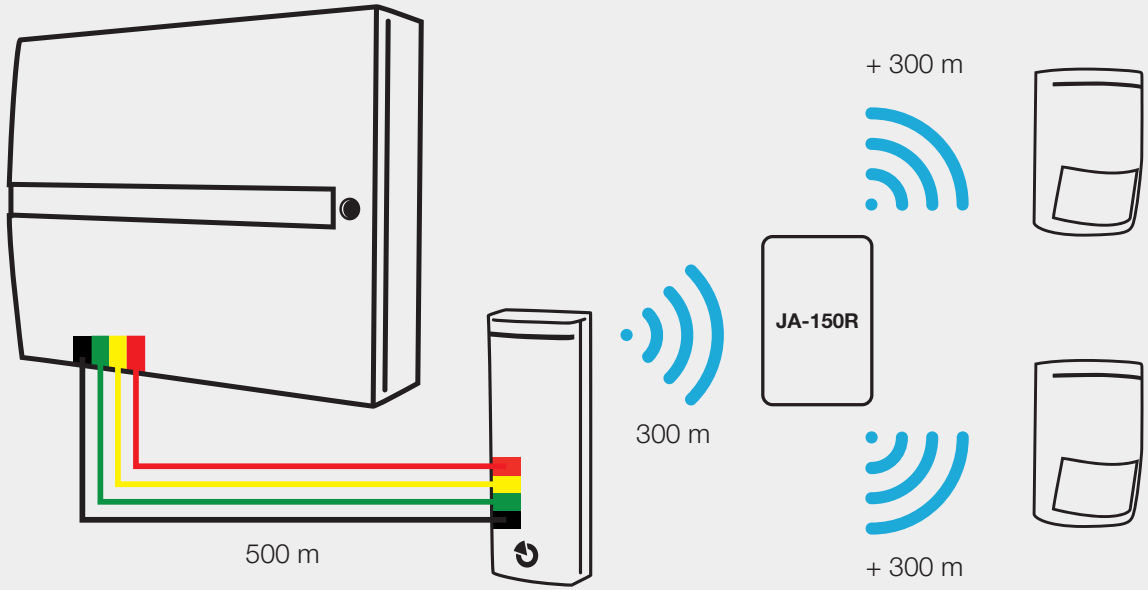
CC-01
designed for the main BUS lines

CC-02
designed for branches from the main BUS line

CC-03
provides 4 extra wires

CC-04
with flammability class B2CA

WIRELESS INSTALLATION



The radio module is an interface between the BUS and a detector.

A detector can communicate with any reachable radio module.

Up to **3 radios in 1 system** can be used.

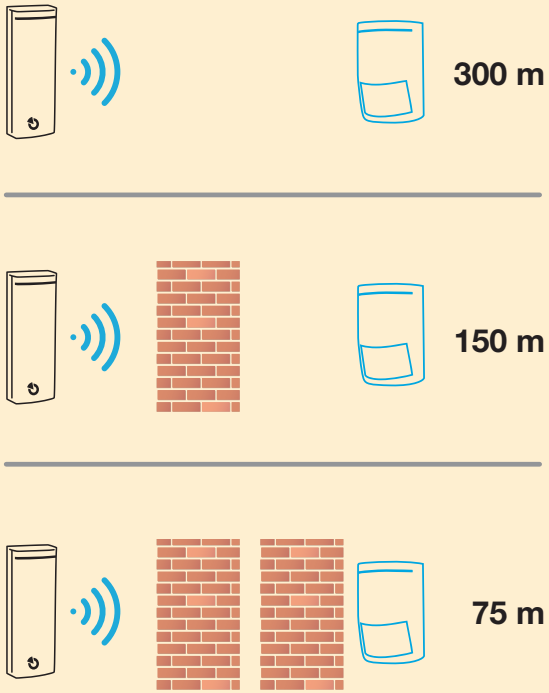
Check the signal strength in diagnostics in F-Link.

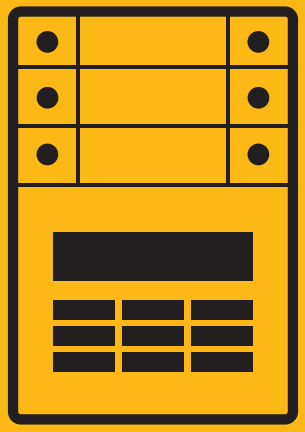
Optional use of AN-868 external antenna AN-868.

JA-150R REPEATER

Can repeat unidirectional peripheral signals.

Cannot repeat repeater signals.





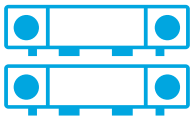
CONTROL DEVICES

KEYPADS

TRAFFIC LIGHT LOGIC:

RED – Set
GREEN – Unset

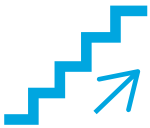
Orange colour for partial setting – "night mode" (for settings see page 18)



UP TO 20 SEGMENTS:

Plan the total number of segments wisely.

Fix every 3rd segment onto the wall.



USE ONE KEYPAD FOR EACH FLOOR:

At least one with a display in the system.

Ideal placement behind the entrance door, stairways, …

The JA-100K control panel can only be used with JA-110E, JA-150E keypads.

Codes with a Prefix for installations with many users where code clashes are possible or for installations where user code changes are allowed.

The **JA-154E** keypad can be powered from an external 12 V DC power supply - DE 06-12. Leave the batteries inside the keypad as a backup power supply.

PT-P700-X – segment label printer – gives the labels a professional look.

KEYFOBS

JA-152J MS and JA-154J MS

- One keyfob serves multiple installations (office, house, car).
- Take over a user´s access privileges and identity.
- Bi-directional communication – visual-acoustic confirmation of the execution of a command.

CHIPS, TAGS AND CARDS

- 2 per user
- EM UNIQUE 125 kHz

MYJABLOTRON

- Register the control panel to the JABLOTRON CLOUD and use the applications for free. More on page 27.

CONTROL MODULE

- The JA-111H-AD is designed for the connection of any 3rd party control device to the JABLOTRON 100 system.

INPUTS

DETECTORS

UNIDIRECTIONAL

Some wireless devices.

Settings of a device are done on its PCB.

BIDIRECTIONAL

All BUS devices.

Some wireless devices
- keypads, sirens - 8 s communication
- PIRs, magnets - 19 minutes communication

Settings of a device are done in F-Link.

ADDRESSABLE

A device takes a position in the CP
(most of the devices).

NONADDRESSABLE

A device doesn´t take a position in the CP
(most of the PG output modules).

ENROLLMENT – BUS

By pressing the Tamper switch.

Entering SN manually.

In F-Link – ‘Send enrollment signal’ enrolling all devices at once.

In F-link – ‘Scan/add a new BUS device’ enrolling a chosen detector.

ENROLLMENT – WIRELESS

By inserting the batteries.

By pressing the tamper switch
(only keypads and sirens).

Entering SN manually.

Wireless devices only to positions
1-120.

Use the SN stickers in each detector to make your notes during the installation.

TYPES OF PROTECTION

Sabotage | Tamper protection

Interior protection

Perimeter protection

Outdoor protection

Environmental protection

SABOTAGE | TAMPER PROTECTION

Always attach the base of the detector to a flat surface using the screws.

Do not use the double sticker tape.

INTERIOR PROTECTION DETECTORS

2.5 m above the floor
(see the installation manual).

Do not place the detector against a heat source (radiator, heater, fireplace) or moving objects (curtains, ventilator).

Beware of pets in the protected area – use the PET immune PIR detector, combined detector or confirmed activation.

TEST MODE FOR 15 MINUTES.

2 levels of immunity – **'Standard' and 'Increased'** for less sensitive detection

For the Partial setting (night mode) – tick the Internal reaction of the detector in F-Link. The detector with this reaction does not guard when the section is armed partially.

F-Link → **Devices** → **Internal**

PERIMETER PROTECTION DETECTORS

MAGNETS

Attach the magnet to the moving part (door, window) and the detector onto the fixed part (frame).

Use the plastic pads when installing the detector or the magnet on metallic material.

GLASSBREAK DETECTOR

Install opposite a window of minimum size 60 x 60 cm not further than 9 m.

Test the detection with a **GBT-212 Glass-break Simulator**.

SHOCK OR TILT DETECTOR

Can be also used for object protection (garden furniture, sculptures, paintings, …)

OUTDOOR PROTECTION DETECTORS

JA-158P

- o two independent detectors (1 position in system)
- o 5s/120s „sleep mode“ to save the battery

Infrared beams – two positions (transmitter and receiver) in the system due to the tamper protection.

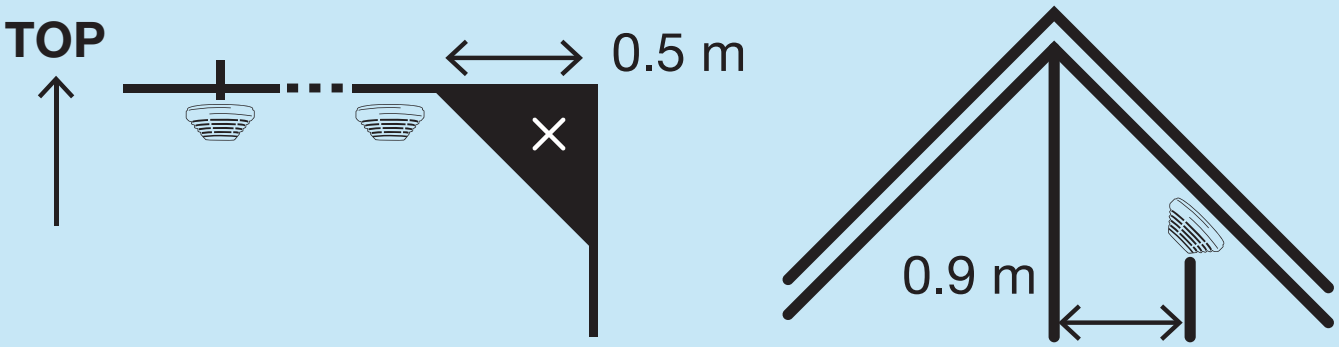
Avoid installation of motion detectors against asphalt surfaces.

ENVIRONMENTAL PROTECTION DETECTORS

SMOKE AND HEAT DETECTOR

Smoke, heat or smoke and heat detection. Need to be regularly tested – use the SD-TESTER.

Hints for installation (please see the installation manual for a proper installation).



FLOOD DETECTOR

Use the JA-150M and LD-81 to make a wireless version.

THERMOMETERS

Set PG activation in MyCOMPANY.

Display the graph of the temperature in MyJABLOTRON and set up the notifications.

Control the temperature in a freezer or a chimney using an outdoor thermometer with an external sensor.

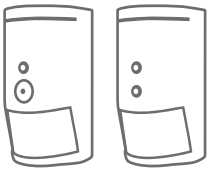
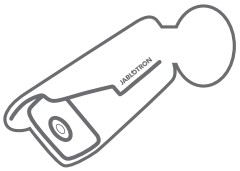


PHOTO-VERIFICATION

- 45° PIR for narrow rooms or rooms with the low ceiling
- 90° PIR for bigger rooms
- Display the photos directly in MyJABLOTRON on request
- PG activation (e.g. photo when door opens)
- Test in F-Link to adjust the PIR view

45° PIR

90° PIR



VIDEO-VERIFICATION

Camera	Resolution	Viewing angle	IR light range	Data transfer
JI-111C	1920*1080 pixels	115°	30 m	HD - 256 kbps FullHD - 512 kbps
JI-112C	1920*1080 pixels	90°	50 m	HD - 256 kbps FullHD - 512 kbps

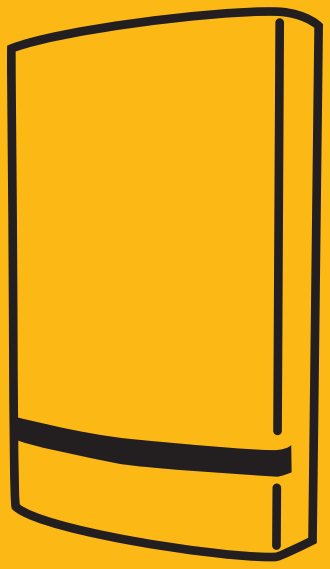
Suitable for indoor and outdoor installation.

Prepare a LAN connection at the camera site.

Use PoE switch JI-114Z or JI-118Z for more convenient installation.

Test the internet connection and do the camera settings in F-Link (Cameras button in the Communication tab).

Register, set up and connect the camera to ARC via MyCOMPANY.



OUTPUTS

SIRENS

OUTDOOR

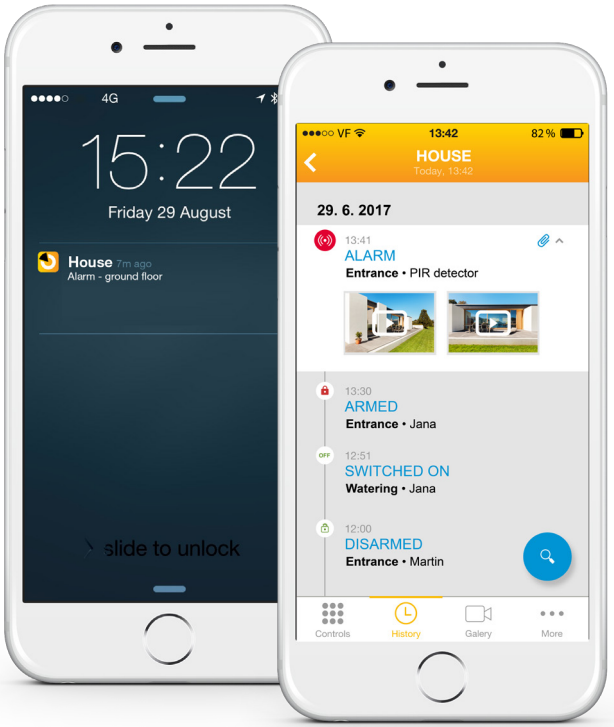
- Install on a facade facing the street – visible place
- JA-163A completely wireless
- Different sound for fire and intrusion alarm

INDOOR

- Can be used as a door bell or door opening chime – PG activation

MYJABLOTRON APP

- Remote control
- Instant overview
- All in one place
- History of events
- Photos and videos directly connected to the respective event in history
- Free notifications
- Gallery of photos and video sequences
- Widgets



ARC

ARC

Connecting the alarm system to a professional ARC (Alarm Receiving Center) gives the customer the complete solution for their security and their property protection.

CLOUD ARC

Recommended option – the easiest way of setting up the communication to an ARC.

Backed-up communication.

Control panel registered to the JABLOTRON CLOUD.

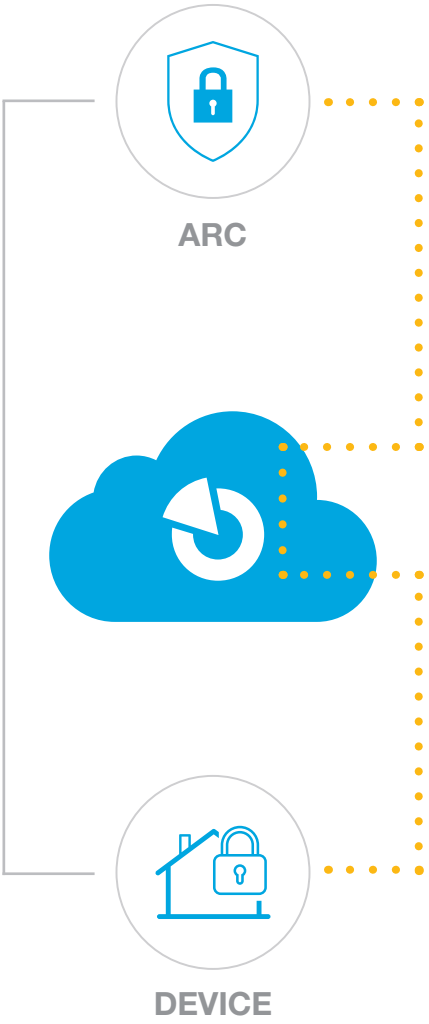
During registration choose one of the available ARCs (if you want to register with another ARC - please contact your distributor).

DIRECT ARC

Set up communication in the ARC tab in F-Link.

Possible communication with up to 5 ARCs.

Connecting structure



SMART CONTROL

PG - OUTPUT MODULES

128 PGS

- Programable outputs - logical (virtual) relays
- Wireless PGs only on positions 1-32

OUTPUT MODULES

- Physical relays (copy the status of an assigned PG)
- Number of connected modules is not limited
- Non-addressable (doesn’t take a position in the CP)
- POWER output modules 16A/250V
- SIGNAL output modules 2A/60V

ACTIVATION BY

- Keypad segment
- Detector (one detector can trigger more PGs)
- Calendar (timer)
- Event (alarm, arm, AC fault, ...)
- MyJABLOTRON

HEATING CONTROL

THERMOMETERS

- Outdoor/indoor
- In combination with PG output module (relay)
- Set up PG activation in MyCOMPANY (Max. 2 thermometers)
- Notifications on crossing temperature limits

THERMOSTATS

- In combination with PG output module (relay)
- Up to 8 thermostats in a system
- Critical temperatures set in F-Link by an installer, temperature regulation is done by an end user via MyJABLOTRON

WIRELESS VALVE HEAD

- Controls hot-water lines in radiators or distributors lines
- Copies state of a PG (ON/OFF)
- In combination with thermostats or thermometers
- Up to 32 valve heads in a system

ENERGY METERING

WIRELESS PULSE COUNTER

- In combination with relays it can control and measure the consumption of an empty (fully armed) house and shut down all unnecessary sockets.

CALENDAR

- 64 different events (Arm, Disarm, Activate/Deactivate PG, ...)
- 4 static timers or Repetition of each event
- Year calendar (to set public holidays, vacations, ...)

ASTRONOMICAL CALENDAR

- Day/Night mode
- Uses GPS coordinates
- Usage: automatic light triggering, keypad reactions (mute, light intensity)

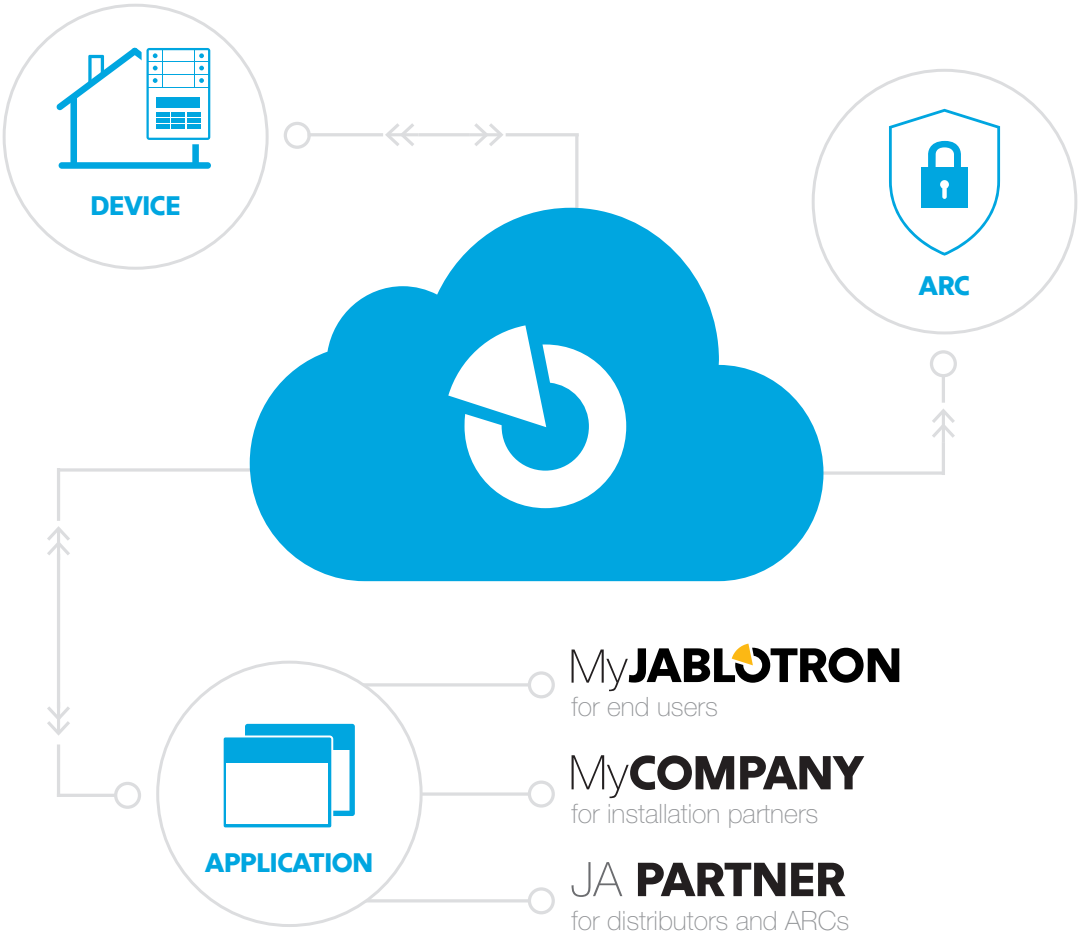
ENTRANCE CONTROL

- 600 users in 1 system
- Pattern (Template) user helps you to set up the same authorization rights to more Users in 1 time
- System Control - enable/disable reporting about actions of given user

JABLOTRON CLOUD

CLOUD

The JABLOTRON CLOUD is a platform designed for sharing information between devices and controlling them.



BENEFITS OF CLOUD CONNECTION

For the installer (MyCOMPANY):

- Constant control of the system – persistent connection – fault notifications
- Remote configuration and servicing (easy money)
- Management of all installations
- Easy access to information, manuals, software updates

For the end user (MyJABLOTRON):

- Easy control
- Constant status control of the system
- Free notifications
- Photo and video verification
- Extra functionalities – SMART CONTROL (energy metering, heating control, …)

REGISTRATION

2 possible ways of registering the control panel to the JABLOTRON CLOUD:

F-Link × **MyCOMPANY**

F-Link is the recommended option
(checks the connectivity of the CP).

Key information needed for registration:

- Registration Key (can be found in F-Link)
- Communicator phone number (not mandatory if only a LAN is used)
- Email of end user –> login to MyJABLOTRON
- Which ARC or just MyJABLOTRON and MyCOMPANY

How to register in F-Link:

- In communication tab in F-Link click on Settings and choose registration
- Follow the wizard and choose your distributor or ARC
- Once you fill in all mandatory information click on ‘Register device’
- **Follow the instruction in the box in F-Link:**
  - Leave service mode
  - Disconnect the usb
  - Do not enter service mode for the next 20 minutes