

iSafe Pro

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1. Functionality

iSafe Pro is a controller of RFID identification, which manages the access to a single door. The access is controlled by MIFARE® contactless tags (type A).

From the outside, the door is opened by presenting the tag to the reader antenna. From the inside, the door can be opened by using a simple push-button connected to the controller.

The controller's characteristics are as follows:

- Controls the access to a single door.
- System management using Service Card (Door configuration & Event card & Time setup)

2. Characteristics

Memory

Maximum number of event: 5000

Maximum number of authorized tags/cards: 14000

Power Supply

Power: 12 V DC

Maximum current (with reader and relay): I ~1A

Recommended Power Supply: minimum 1.5A, regulated power

Physical characteristics

Size (L x W x H): 86x55x20 mm

Weight: 120g

Environmental characteristics

Temperature: -10 ~ 60 °C

Humidity: 0 ~ 80 %

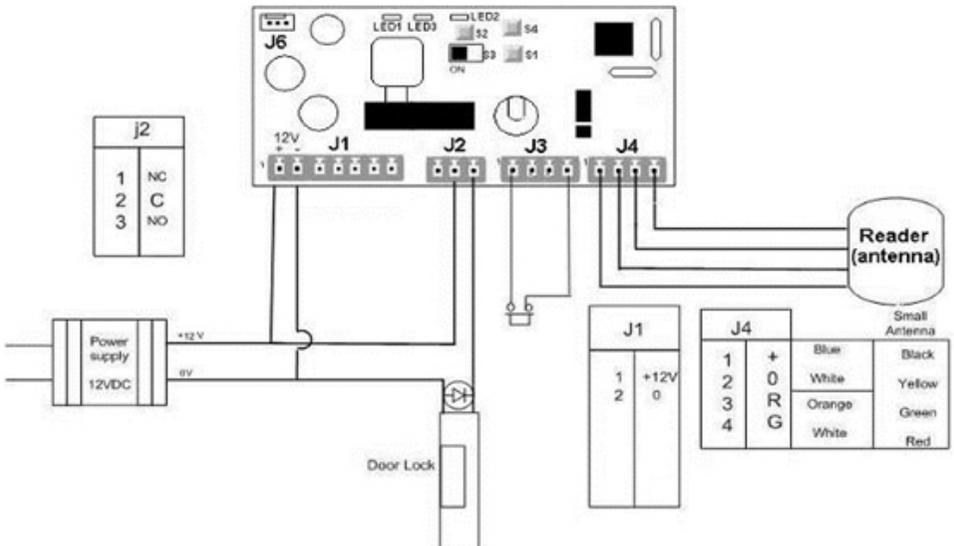
Standards

EN 60950	These standards regulate the requirements from devices that are likely to create electromagnetic disturbance or whose operation can be affected by these disturbances.
ETS 300684	
EN 330-2	
NF EN 5008-1	Emission
NF EN50082-1	Immunity

3. Installation

The iSafe Pro electronic board consists of:

- S1/S4 – For future use
- S2 – Programming button (detailed later in this document)
- S3 – The Programming Mode switch (active/inactive)
- LED1 – Power supply indication
- LED2/LED3 – For future use
- J1 – Power supply connector
- J2 – Relay (electric strike/magnet lock connector)
- J3 – Internal door opening push-button connector
- J4 – Reader (antenna) connector
- J6 – Controller software update connector



To avoid problems, avoid from passing any high-voltage cable in any proximity of the cable connecting the reader antenna and the controller.

Recommended power supply: Low voltage ALIM-243A (model)

Available from Immotec Systems, Inc.

For more details please contact your local supplier.

4. Configuration

4.1 Programming mode

Switch **S3** is used to select between programming and operative mode.

Normal Operations Mode: S3 in position '0'

Programming Mode: S3 in position '1'

4.2 Reset

To reset the iSafe Pro controller, follow the next steps:

- Open the top cover of the controller, in order to have access to the buttons.
 - Switch S3 should be in position '1' ('Programming Mode').
 - Connect the power supply to J1 (see drawing in the previous page).
 - Press on S2 and hold.
- During the resetting time of the controller, 3 long beeps are sounded.

At this time, all the information is deleted from the controller.

When the reset is complete, the controller sounds a short beep continuously, finally switch S3 back to position '0'

4.3 Setting of the controller

The Service card is used for setting the iSafe Pro controller.

Follow the next steps:

- Go to: <https://isafepro.com/>
- Place the Service Card on the Encoder
- Make sure that the Encoder is connected to your PC and that the iSafe Pro driver has been activated
- In the software, open the site to which the controller belongs
- Initialize the Service Card (full instructions can be found in the software User Guide)
- Present the Service Card to the iSafe Pro controller reader.

Indications that are emitted by the iSafe Pro controller during the configuration process:

- 1 short beep (high pitch) – starting of communication
- 2 short beep (high pitch) – end of communication
- Green flickering light during the communication time.
- 3 seconds constant red light – card was not initialized by the software

The information updated in the controller through the configuration process:

- Site code
- Controller logic address (door number)
- Delay time requested for the door
- Authorized groups and their corresponding time profile.

5. Using the controller

5.1 Opening the door

When an authorized tag is presented to the iSafe Pro Controller, the controller sends a signal (through the relay) that allows the opening of the door locking device (electric strike, magnet lock, electronic lock) that is installed in the door.

- Make sure that the S3 switch is set to 'Normal Operation' mode.
- Present an authorized tag to the controller.
- Indications that are emitted by the controller:
 - o Green flickering light during the opening time / one high pitch beep sound - the tag was accepted as authorized by the iSafe Pro controller
 - o 3 seconds of flickering red light / one low pitch beep sound – the tag is not authorized (wrong site or wrong door)
 - o 1 second red light, 1 second green light, 1 second red light – the tag is out of the authorized schedule

5.2 Retrieving the Event Log from the iSafe Pro Controller

The iSafe Pro controller stores the information of the last 5000 events (tags that were presented to the reader).

The Event Log can be retrieved and imported into the iSafe Pro web based software by using the Service Card.

- Go to: <https://isafepro.com/>
- In the software, open the site to which the controller belongs
- Place the Service Card on the Encoder
- Make sure that the Encoder is connected to your PC and that the iSafe Pro driver has been activated
- In the software, open the site to which the controller belongs
- Initialize the Service Card at the 'Event Management' page (full instructions can be found in the software User Guide)
- Present the Service Card to the iSafe Pro controller reader.

- Place the Service Card on the Encoder and import the information from the card to the software (full instructions can be found in the software User Guide)

The Service Card can carry up to 428 events from the controller to the software.

Events that were downloaded by the Service Card are erased from the Controller's memory.

Once the events are uploaded to the software, the Service Card is free to download more events.

Indications that are emitted by the iSafe Pro controller while the Event Log is being retrieved:

- 1 short beep (high pitch) – starting of communication
- 2 short beep (high pitch) – end of communication
- Green flickering light during the communication time.
- 3 seconds constant red light – card was not initialized by the software

The events that can be seen in the Event Log:

Type	Signification
Unknown tag	An unknown tag (unprogrammed or that belongs to another site) was presented to the controller.
Authorized tag	An authorized tag was presented to the controller and was allowed access.
Wrong door	The presented tag is not allowed in this door
Wrong site	The presented tag does not belong to the controller's site
Cancelled tag	The presented tag was cancelled (tag not authorized)
Out of schedule	The presented tag is out of the allowed schedule in this door