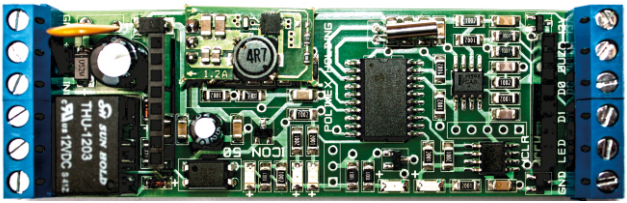
User manual

iCON 50

Controller for Access controll

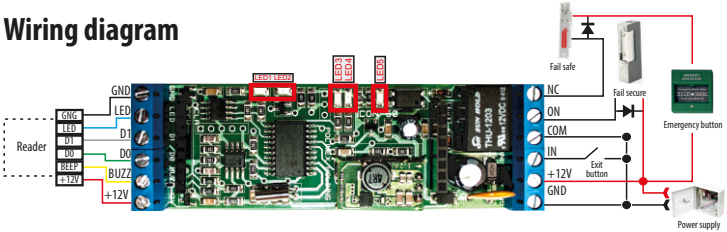


Specifications of iCON50

User capacity	1500
Transaction capacity	4000
Readers	1pcs with 26 or 34 bit WIEGAND interface (automtic selectable) and 4-8 numbers for PIN
Reader mode	RFID, RFID and PIN, RFID or PIN, Work code
Inputs	1 galvanically isolated
Outputs	1 pcs(1 relay- 30V/3A), 2 pcs LED and 1 pcs for reader's beep
Communication	LAN, USB (with additional module)
Power Supply	12 VDC
Current	60
LED indicator	Yes
Operating temperature	-10°C - +50°C
Operating humidity(RH)	10%- 90% RH (non condensing)
Dimensions	80*33*22

- Standalone mode with **master card**;
- Communication mode via **USB / LAN** (additional module)
- Control of **1 singlesided door**;
- Ability to manage payed services via software **Andromeda Pro**
- Volatile memory for users and events;
- Open protocol for integration with other systems **WEB SDK**
- Automatic selectable mode - **standalone or network** (via software)
- Built in Duress Mode (forced opening the door with silent alarm)

Wiring diagram



Controller's LED indication

Led №	Indicates status of :	Status of indicators:	
Led 1	Power U	On.	X
Led 2	When Output is activated	On.	Off.
Led 3	Communication receive Rx	Fast blink	X
Led 4	Communication transfer Tx	Fast blink	X
Led 5	Exit button In	On.	Off.

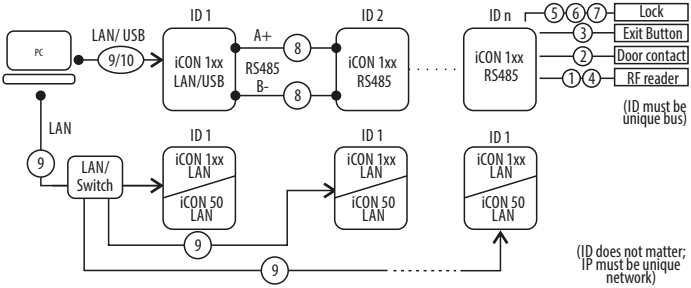
Recommended types of cables and permissible length

Recommended wire for connection between the controller and the door (readers, buttons,...) is **2x0.5+8x0.22.** (2x0,5 is used for the locking device and the other 8 wires are for powering the readers, data from the readers (D0, D1), controlling led and beep of the readers, exit button, magnetic sensor and others. If the wires are not enough you can connect everything with common GND (for example the black 0,5 mm wire).

Table with eligible lengths when powering with 13.7VDC

№	Equipment:	Wire Specification- мм2	Maximum lenght - meters
1	Readers - data and power	0.22	up to 100
2	Magnetic sensor	0.22	up to 100
3	Exit button	0.22	up to 100
4	LED and Beep	0.22	up to 100
5	Electromagnet (550мА) Polimex	0.5	up to 30
6	Electric strike Polimex	0.5	up to 70
7	Electric drop bolt Polimex	0.5	up to 40
8	RS-485	FTP min. 5 cat.	up to 1200
9	LAN	FTP min. 5 cat.	up to 100
10	USB	Standard cable	2-3
11	Emergency button	0.5	Its aways by the door

Connections



Working with Master card

Working with Master card

Adding card/s:

Check once your mastercard to the reader. The led will start blinking. When it stops blinking and led is on you must check the card/s which you want to add/register. When you are finished wait a couple of seconds and the led will return to normal state. Then you are ready to use your system.

Deleting card/s:

Check twice your mastercard to the reader.The led will blink slowly. When it stops blinking and led is on you must check the card/s which you want to delete. When you are finished wait a couple of seconds and the led will return to normal state. Then you are ready to use your system.

Deleting all cards:

Check your mastercard 4 times to the reader. Wait a couple of seconds and the led will return to normal state. Then all card are deleted.

Software

INSTRUCTIONS USE OF ANDROMEDA TOOL
http://goo.gl/r88288

INSTRUCTIONS USE OF ANDROMEDA PRO
https://goo.gl/cSuFFa

DOWNLOAD ANDROMEDA TOOL
http://www.securitybulgaria.com/files/Andromeda/NewAndromedaToolLast.zip

Web SDK

DISCUSSIONS AND INFORMATION
https://goo.gl/zbshx1

REMOTE SUPPORT
http://www.securitybulgaria.com/files/Andromeda/PolimexSupport.exe

Polimex Holding LTD., Sofia,128A Dimitur Petkov Blvd. fix. +3592/ 9208666

FAQ

Question: I dont know the controllers ID. Where can I see it?
Answer: The ID is written on controllers lable. If the lable is not available or the ID is changed it can be searched with PolimexAutoDetect tool. If you are using a LAN module you ca access LAN's web interface (default 192.168.1.202) go to SDK Device Manager and select START. You will get a list of all controllers connected to this line.
Question: How to exit Fire mode and bring controller to normal state?
Answer: When fire alarm system ends to supply NC contact to the controller mark a registered card on one of the readers.
Question: How to recognise check in and check out reader?
Answer: By default reader 1 is for check in and reader 2 for check out.
Question: When to use rectifier diode?
Answer: Aways. Connect it to every locking device independently of the type.
Question: How to install the controller in the box?
Answer: Use the two spacers included in the set.
Question: How to mount the LAN module?
Answer: Mount it on the slot for external module with the RG45 located by the controllers power input directed towards the outside of the board .
Question: How to mount the USB module?
Answer: Mount it on the slot for external module located by the battery directed towards the inside of the board.
Question: How to control the readers indication?
Answer: Led and beep indicators can be controlled by supplying readers inputs with GND from the controller.
Question: What is the maximum lenght between reader and controller?
Answer: The wiegand standard says that it is 100 meters, but it depends of the wire material. The best for long distance is to use twisted pair (FTP). See page 3.
Question: How to switch outputs from NO to NC?
Answer: Use the jumpers positioned between the relay and the terminal. If the jumper is positioned to the right the contact is NC and if the jumper is positioned to the right the contact is NO (The controller must be oriented with the relays to the underside)