

# INSTALLATION MANUAL FOR PRO I/O, PRO I/O-60

#### GENERAL INFORMATION

between them is only visual.

PRO-I/O module has standard ACO housing, possible to ring with different tone. In order to enable the relay in the suface mount (dimensions: 71x70,5x19,4 mm) and it has I/O module use F2 button (circle icon). Any action at the Rj45 socket and screw terminals for connecting the wires. receiver during incoming call from the module cancels the PRO-I/O-60 is equipped only with screw terminals for call and enables the desired action. When the call signal wires connection, the size (cross-sections is 50 mm) mode is enabled, the I/O module enables the relay while allows putting the module into 60 mm electric back boxes. there is call from the panel and when the module's input PRO-I/O module optionally extends the system with relay gets the contact, the I/O module will automatically open output and normally open (NO) input. The latter can be the door. When the input has a permanent contact, every used to call certain receivers (from additional door bell call from the panel will enable the relay for 1 s and will button) or from remote opening activation (typical open the door. The module can work also as a relay and activation of e-lock).

bistable mode and they can be used to control additional outside station (this feature is available in the software gate, lights or external calling signal can be connected to version of the module 2.1 and the panel's version from it.

PRO-I/O and PRO-I/O-60 modules are optional extension. In case call incoming from the I/O module the receiver modules for PRO system with relay output and switch shows the picture from the camera (if available) and starts output. Both modules have equal function, difference to ring. Calling from the I/O module is shown by pulsating key icon and lasts for 10 s. and the receivers with handset trigger the e-lock for the time set in the outside unit, it NC/NO contact points work either in monostable or doesn't concern opening from the INPUT function of the v.1.1.5)

## **TECHNICAL PARAMETERS**

Power voltage

Max. power consumption

Power consumption in standby

Contacts load

Type of external trigger

Resistance

Contacts type

Sockets type

Work mode

Additional calling type

15VDC ±5%

35mA

~0.14W

5A/250VAC

NO switch

≤ 20Ω

NO/NC with common point COM

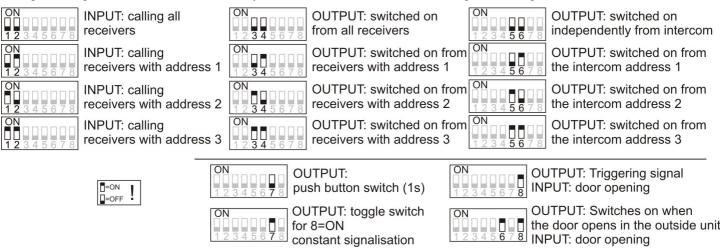
RJ45 socket / screw terminals ARK

monostable / bistable

Normally open (NO)

## **CONFIGURATION AND INSTALLATION**

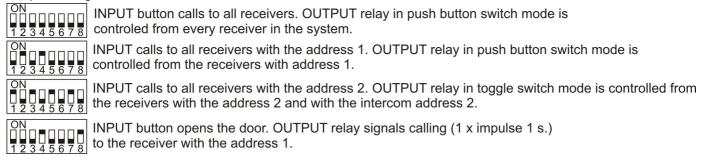
Programming of the I/O module is done by switches in the module – according to the diagram below:



of receivers which will ring in case of incoming call from the during call incoming from the panel to the address set with outside button (INPUT). The second group (3-4 and 5-6) the switches 3-4 (check the diagram above). If the switch 7 allows to set the work mode of additional output is in position ON, the OUTPUT will be continually enabled (OUTPUT). Use switches 3-4 to set which receivers will be every 6 seconds (for 1 second) until the panel stops ringing able to control the output regarding the calling address (call cancels for e.g. Activation of door opening). If INPUT from the panel. The group of receivers that is allowed to gets permanent contact, every incoming call from the panel control the output can be limited by appropriate intercom activates OUTPUT for one second and automatically address. The switch 7 is responsible for choosing the work activates door opening in the panel. Turning on the mode of the relay between: monostable (switch off) or switches 8 and 6 triggers the OUTPUT when the doors are bistable (switch on). During the monostable mode F2 being opened from the outside unit. Opening in the outside buttons enable the relay for 1 s. Enabled relay is confirmed unit can be triggered from an inside unit (the 'key' button), with signal tone ("bip") in the receiver and by the PK ON led from the outside unit (pin code, proximity key tag, not the in the module. In bistable mode F2 button enables the relay INPUT of the outside unit) or from the INPUT of PRO-I/O and it is confirmed by with single signal. Switching off is module. Activity time of the OUTPUT equals the time of the done by the user with F2 button - confirmation with double set signal. The relay can be operated from the panel (only The I/O module can be connected anywhere to the main models with keypad) if before entering code or swiping line with RJ45 (connections: IN, OUT) and its location does proximity tag "the key" is pressed. The switch 8 enables call not have anything to do with the receivers in the system. If signal mode (call from the panel) and it changes function of the RJ45 is not used, the signal line (the terminal: line) has the outside button (INPUT) to activation of the door to be lead to the module together with the power supply opening in the panel.

The first group of switches (1-2) is responsible for selection Call signal activates the relay (INPUT) for 1 s. (switch 7 off) door opening time in the outside (terminals: +DC and -DC POWER)

## Example configurations:



More possibilities of Familio PRO (systems with more monitors, typical troubleshooting and examaple diagrams) can be found in the manual for Familio PRO system available at www.aco.com.pl/en

PRINCIPLES OF STORING USED-UP ELECTRIC EQUIPMENT Used-up electric equipment may not be stored together with other waste products. They should be stored in special places assigned for this purpose. When disposing of used-up equipment, please address appropriate institutions or companies that provide waste recycling services. - Directive 2002/96/ECC/ of 27.01.2003