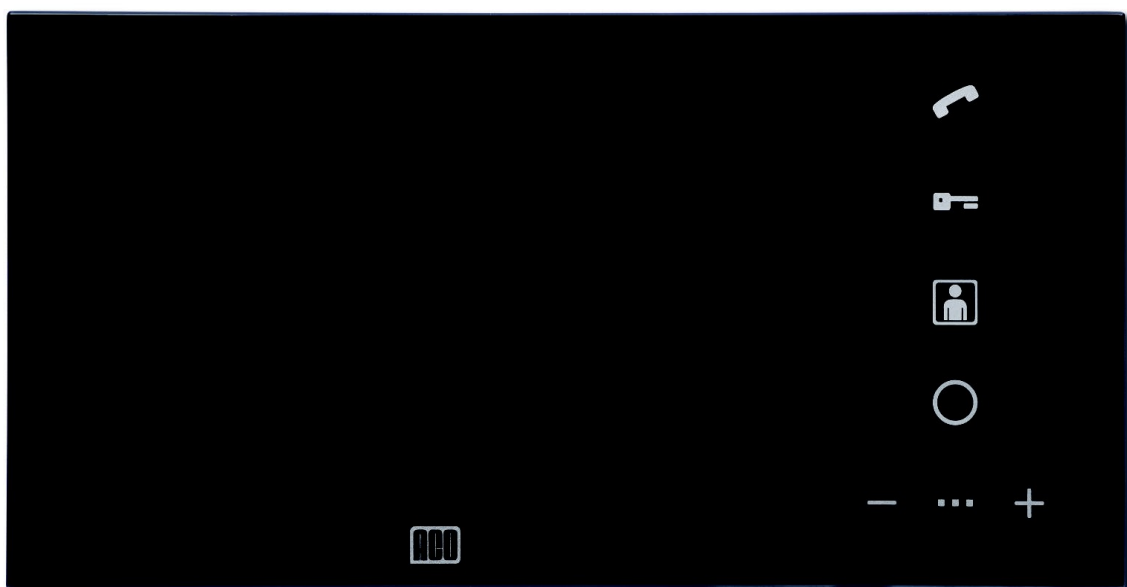




**OPERATING MANUAL FOR MONITOR Familio PRO  
MPRO7-xx**

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## GENERAL INFORMATION

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The Familio Pro digital video door entry system is designed to be used for single-family and multi-family solutions, where transmission of a video signal accompanied by an audio signal is required. The system also allows one to establish internal connections (intercom) between monitors. The system topology is based on Ethernet twisted pair cable, category 5e. The dedicated, energy-saving switched-mode power supply unit is equipped with an integrated video splitter: 1 input for the exchange unit and 3 monitor outputs.

The panel has got up to 3 independent call buttons. However, it can support a higher number of monitors assigned to the same button (address). It is also capable of reading proximity keycards and access badges, which allows the doors to be easily opened directly from the panel. In the versions with a coded lock, doors can additionally be opened by means of individual four digit codes.

The housing is made of stainless steel, which ensures effective protection against devastation and the impact of atmospheric factors. It is easy to operate, functional and easy to install. The integrated camera is equipped with infrared LEDs (emitting light invisible to the eye), which allows users to get a video image after dark, without dazzling the interlocutor. The camera heating-up system ensures good visibility in any atmospheric conditions and prevents the lens from getting misted over and it allows the system to operate in low temperatures.

The video monitor has got a modern look and its totally flat front side is made of glass. The implemented speakerphone system eliminates the need to use a telephone receiver to communicate. The front panel is fitted with a tactile keyboard with backlit icons used to operate the monitor.

An optional (I/O) extension module allows the system to support an additional call button (e.g. a doorbell) and a relay output (that can be used, for instance, to control an additional gate).

Advantages of the Familio Pro system:

- White keyboard backlighting,
- Ensured complete privacy during conversation,
- Support of internal communication (intercom),
- Individually configurable call signals and volume in each monitor,
- Support of up to 3 independent call addresses,
- It is possible to support several monitors at one address,
- Independent main address and intercom address for each monitor,
- Modern style housing made of stainless steel,
- Housing resistant to corrosion and devastation,
- Flush-mounted or surface-mounted housing,
- Three back-lit description fields,
- Individual call button for each address,
- It is possible to open the door with proximity keycards and access badges (RFID),
- It is possible to open the door with individual codes,
- Panel parameters can be modified with a PC application,
- Panel firmware can be upgraded remotely.

## TECHNICAL PARAMETERS

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• Power-supply voltage	15VDC $\pm$ 5%
• Power consumption in stand-by mode	~150mW
• Current consumption during video conversation	460mA
• LCD display diagonal	7"
• Connector type	RJ45 socket / ARK-type screwed terminal connectors
• Front panel material	Glass
• Mounting plate dimensions	14cm x 9,2cm
• Monitor front dimensions	24cm x 12cm

## OPERATING

It is possible to establish an internal connection between monitors (intercom), when the line is not busy (the central diode of the volume bar does not blink).

In order to establish a connection, touch the **telephone receiver** icon; then, select the monitor to be connected with + or -, and touch the **telephone receiver** icon again.

If a device with the selected address is present in the system, the monitor will start calling it. In case the selected number is missing, the monitor will generate a "busy" signal. The display is not switched on in the intercom mode.

**Attention!** If a call is received from the panel during an intercom conversation, the internal connection is terminated and the called monitor starts calling in the panel call mode.

If there is a call from the outside panel, the screen goes on and shows the picture from the camera, the monitor sound and icons pulse. Touch the receiver to answer the call. During the call volume control is possible with the + and - . In order to mute, press m – until the icons fade out.

In case of call from other monitor (intercom), the screen does not go on and the **receiver** icon will be pulsing. Press the **receiver** in order to answer. During the call volume control is possible with the + and - . The connection lasts up to 4 minutes.

Activating the electric strike is possible in stand-by mode and during conversation (also internal). Press **the key**, in order to activate the electric strike. Every activation of the strike is confirmed by acoustic sound (peep). If the line is busy (other users are talking), it's not possible to activate the electric strike.

It is also possible to permanently switch the preview on (max. 60 minutes) by touching the **monitor** icon for at least 5 s. The preview is switched off during calls from other monitors.

Activation of additional functions is confirmed with five sound signals ("bips") in a quick succession and accompanied with brightening of the **monitor** or **telephone receiver** icons. The functions are deactivated by analogy to their activation

**The "busy" status of the bus is indicated on the monitor with blinking central diode of the volume bar. The bus is busy, when a call is being received by another monitor.**

In case the line is busy, it is impossible to establish an intercom connection, to switch the preview on or to activate the electric strike. It is only possible to control the I/O module.

A bus error that prevents proper operation of the system (no communication with other system components) is signaled with simultaneous blinking of the icons: **telephone receiver, key** and **monitor**. In this state, it is possible only to activate the preview from the panel camera. It is impossible to activate the electric strike, control the I/O module or establish a connection.

The monitor allows the user to configure the so-called auto-open function. This functionality allows the door to be opened automatically. It can be activated, for instance, during office hours or in the case of a party, so that any monitor call with active auto-open option will open the door. The auto-open function is activated by holding the **key** icon for at least 5 s.

It is also possible to permanently switch the preview on (max. 60 minutes) by touching the **monitor** icon for at least 5 s. The preview is switched off during calls from other monitors.

Activation of additional functions is confirmed with five sound signals ("bips") in a quick succession and accompanied with brightening of the **monitor** or **telephone receiver** icons. The functions are deactivated by analogy to their activation.

## ADJUSTMENT

### Call volume adjustment

- touch + or – in the stand-by mode

### Sound tone adjustment

- touch the **F2** icon during volume adjustment and select a ring tone

### Screen brightness adjustment

- touch the **monitor** icon in the stand-by mode, then use + or –

### Colour saturation adjustment

during screen brightness adjustment, touch the **monitor** icon; then use + or –

Microphone →



Telephone receiver icon

Key icon

Monitor icon

F2 icon

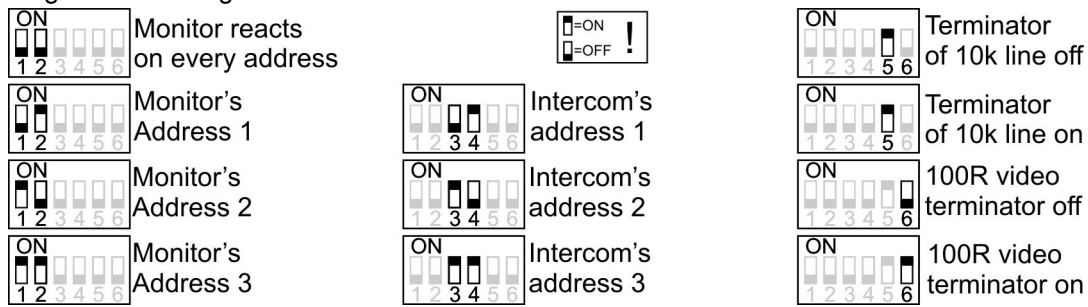
Volume bar

Volume adjustment icon

## MOUNTING AND CONNECTING

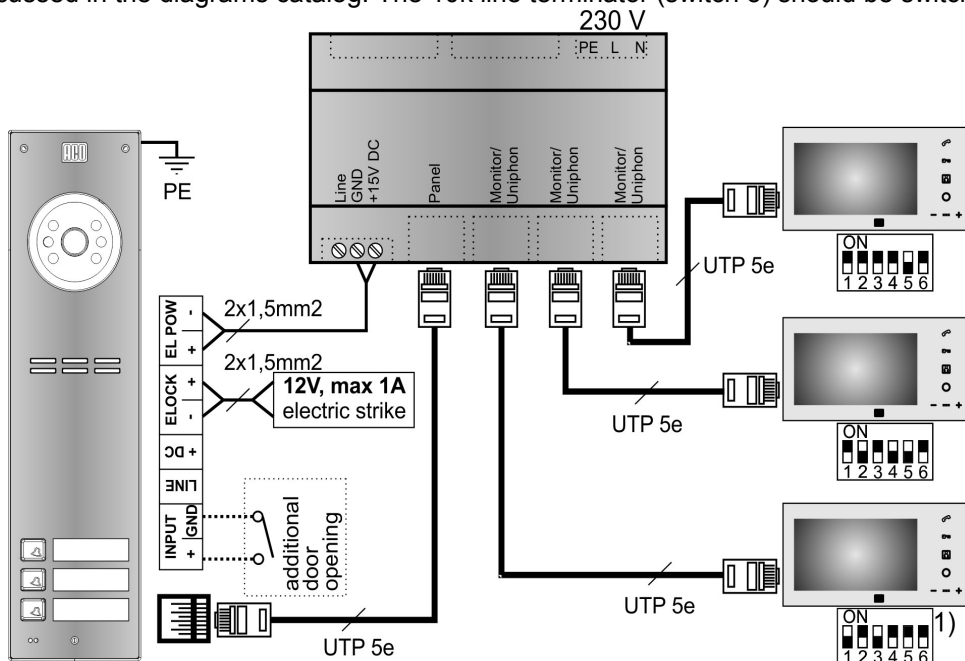
Monitor assembly starts with the assembly plate. Bore four holes under the plate, according to the dimensions on the template that you find in the box of the monitor. It should be remembered that the microphone is located to the left of the monitor and it should not be covered.

Monitor addresses and intercom addresses are programmed with the switches, located in the back of the monitor housing, according to the drawing below.



Basic diagram for FAMILIO PRO connection

The video terminator should be switched on in each monitor with switch 6 (ON position). It is required to be off only in special cases, discussed in the diagrams catalog. The 10k line terminator (switch 5) should be switched on ONLY in the



monitor that is furthest removed from the panel. This distance is not critical. When it cannot be unequivocally determined, which monitor is the furthest one, select one of the candidates.

Monitor connections can be made interchangeably by means the RJ45 socket or screwed terminal connectors.

In case RJ45 connector is used, twisted pair should be crimped as shown in Fig. 4.2. When screwed terminal connectors are used, they should be made according to 4.2: power supply to +VDC and GND terminals, the signal line to the L+ terminal, the video signal to V+ and V- terminals, respectively.

Attention! In case the front glass breaks, you may suffer injuries if you continue to use the device.

**For advanced configurations please check the extended manual available at:**

<http://www.aco.com.pl/en/product/one-way-video-door-entry-panel-fam-pro-1np>

### 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