

MODULE OF CONNECTION OF THE COORDINATE LINE MK-032K

PASSPORT Installation and operation manual

1. PURPOSE

The interface module MK-032K is designed to connect the outdoor panel with the coordinate system of addressing (hereinafter - the coordinate intercom) to the subscriber audio line of the video intercom (video monitor) of the 4-wire system of the COMMAX type (the door opening unit is controlled via the COMMAX line), to receive calls from it, Two-way audio communication, video surveillance and door opening with standard video monitor capabilities. The interface module is designed to work as part of the metacom production equipment. The list of supported equipment from other manufacturers is available at www.metakom.ru.

2. FEATURES

- Possibility to connect audio and video lines of a coordinate intercom, as well as a single-block (individual) outdoor panel of the COMMAX system with built-in video to work on a common 4-wire video monitor line;
- Automatic switching of video signal when establishing communication with a coordinate intercom;
- Opening of the door of the coordinate doorphone when communication with it is established when the subscriber presses a button on the video monitor;
- Call blocking mode from a coordinate intercom while receiving a call signal from a one-call outdoor panel;
- Galvanic isolation of the audio line with a coordinate intercom with the help of optocouplers;
- The mode of viewing the image from the video camera of a single-block outdoor panel;
- Ability to adjust the number of call signals sent to the video monitor from a coordinate intercom;
- Ability to adjust the volume of audio in each direction;

3. SPECIFICATIONS

The number of ringing signals fed to the video monitor from the coordinate doorphone	1...5*
Duration of a call on a call from a coordinate intercom, s	180**
The duration of blocking a call from a coordinate intercom while calling from a one-call outdoor panel, sec.	60**
Supply voltage, V	12 DC from video monitor
Consumed current, mA, no more than	45mA
Maximum impedance of the audio line of the coordinate doorphone, Ohm	30
Maximum impedance of the video monitor audio line, Ohm	30
Operating temperature range	-30...+40°C
Relative humidity (at 35 ° C)	95%
Overall dimensions, mm	56x64x24
Weight without fasteners, kg, not more than	0,1

- * - programmable parameter, factory setting is 1 signal;
- ** - after pressing the door opener, the duration is 15 seconds

4. PRINCIPLE OF OPERATION

When the subscriber is called from the coordinate doorphone, a call signal is sent to the monitor and the video and audio channel of the video monitor is connected to the coordinate line, while the HL2 LED lights up. After the end of the sound signal (or a series of signals), the call of the coordinate doorphone is automatically raised (the interface module has no information from the video intercom about the fact that the handset is picked up by the subscriber, therefore it raises the coaxial doorphone automatically). To turn on the audio connection, press the button on the video monitor. After the talk time has elapsed on the coordinate intercom or interfacing module (measured from the moment the coordinate telephone intercom is raised), either on the video monitor or after the subscriber has switched off the connection (video monitor is switched to standby), the coordinate interphone is reset and the audio and video line is reset to the initial state to a one-party outdoor panel).

When the call button of the subscriber is pressed on the one-party outdoor panel (if there is one), the interface module is switched to the call blocking mode from the intercom, while the HL1 LED lights up. At this time, all incoming calls from the intercom will be reset. After the blocking time has elapsed, or after the subscriber has switched off the connection (the video monitor is put into standby mode), the blocking is turned off and the call from the coordinate doorphone becomes available again.

Note: with some monitors that have a delay of + 12V on the line after pressing the call for more than 2 seconds, the lock function will not work. In this case, when you call from the coordinate doorphone during a call on a single-door intercom, the connection to the intercom will automatically be switched.

To view the image from the video camera of a one-party outdoor panel, you must click the view button on the video monitor. In this case, the HL1 LED blinks for a short time, which means a + 12V supply to the interface module. The functions of calling and opening the door of a single-block outdoor panel are still accessible, and a call from a coordinate intercom is also possible.

It is not necessary to connect video lines from a coordinate or one-to-one outdoor panel, but in this case an empty screen will be displayed when the corresponding call is made. In addition, for some models of video monitors, the presence of video is mandatory and in its absence it is impossible to accept a call. In this case, the video signal can be fed directly to the video monitor input from the outdoor panel, the video intercom doorphone, or from any other camera that is installed.

It is possible to adjust the volume of the audio signal separately for each direction of communication. It is also possible to adjust the number of ringing tones applied to the video monitor.

5. CONNECTING THE CONNECTION MODULE

The module is connected in accordance with Fig. 1. If necessary, the interface module is set up before operation.

If the volume of the audio connection is insufficient or excessive (whistling or squeaking feedback (self-excitation) of the doorphone), as well as spontaneous loss of audio communication, you need to adjust the volume of the audio connection. The adjustment is made by a screwdriver with the audio connection installed with a coordinate intercom (recommended with an assistant). In case of spontaneous loss of

communication in any direction, you should increase the volume of the signal in this direction with a corresponding decrease in the opposite direction. When adjusting, do not use excessive force.

The setting of the number of ringing signals sent is as follows:

1. When the power of the interface module is switched off (standby mode of the video monitor), close the jumper J1.
2. Supply power to the module (enable image viewing from a single-block outdoor panel on a video monitor, or connect the module to a separate 12-15V source (terminals +12V, GND)).
3. The adapter enters setup mode.
4. The number of flashes of the LED HL1 determines the number of ringing tones. At the right time, you need to remove the jumper. The setting is written to the memory of the interface module, after which the module will enter the standby mode.

If necessary, the setting can be repeated starting from step 1.

In operating mode, the jumper must be removed.

When setting the number of ring signals, it should be borne in mind that the installation of several (more than two) ringing tones markedly increases the delay in the elevation of the coaxial doorphone, which can cause inconvenience. For this reason, it is advisable to set up the number of ringing tones only if the video monitor generates only a single beep when making a call, otherwise it is recommended to leave the factory setting (1 beep). You can also raise the handset of a coordinate intercom in the call by pressing the door open button on the video monitor (note: some video monitors allow this only after pressing the audio button). **Be careful: after a series of ring tones, the coaxial doorphone is automatically raised, so pressing the door opener will open the door of the coordinate doorphone.**

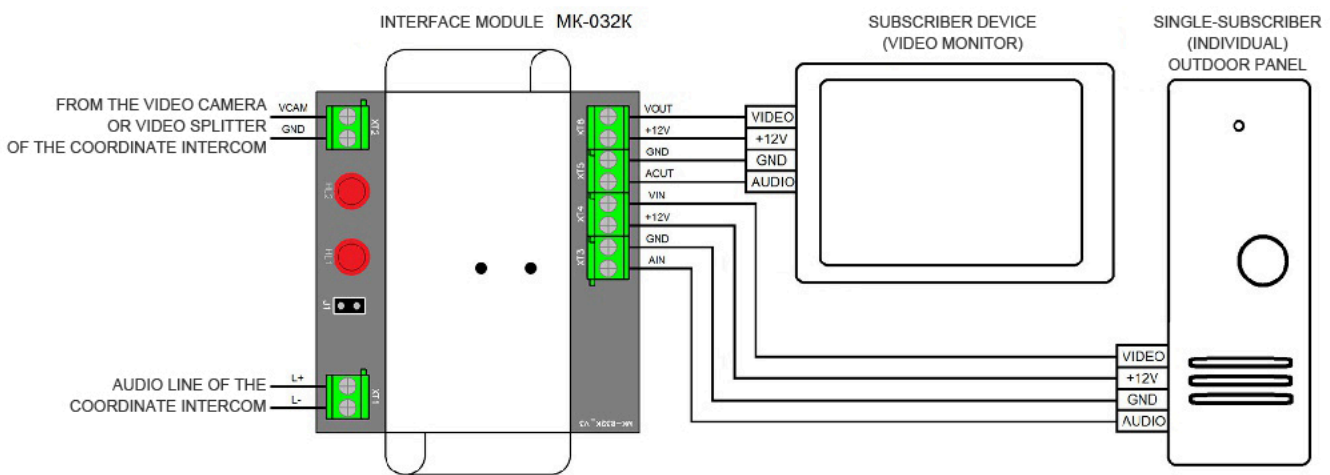


Figure 1. Connection diagram of the interface module

6. CONTENTS OF DELIVERY

Interface module MK-032K 1 pc.

Passport 1 pc.

Fasteners 1 set

Individual packing 1 pc.

7. WARRANTY LIABILITIES

The manufacturer guarantees the compliance of the adapter with the requirements of TU 6652-001-59879795-2003 when the user complies with the rules of use, storage and transportation. Warranty period - 12 months from the date of sale, but not more than 18 months from the date of manufacture. If there is a violation of the integrity of the seals and (or) the presence of mechanical, electrical or other types of damage caused by improper transportation, storage, operation or actions of third parties, no claims for quality are accepted and no warranty repair is performed.

8. CERTIFICATE OF ACCEPTANCE

The interface module MK-032K complies with the technical conditions and is considered suitable for operation.

Release date _____

OTK representative _____ Seal

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The product is certified