

CALL BLOCK

METAKOM

MK2, MK4, MK6



PASSPORT

www.metakom.ru

INSTALLATION AND OPERATING INSTRUCTIONS

Valid for filling

CALL BLOCK
"METAKOM MK2", "METAKOM MK4", "METAKOM MK6"

To be completed by the repair company

Contents of the repair. Name and number according to the scheme of the replaced part or unit. The place and nature of the defect:

Signature of the person who carried out repairs _____

Date of repair _____
(day, month, year)

Signature of the owner of the product, confirming the repair

Repair company stamp with the city:

1. PURPOSE

The call blocks "METACOM MK2-X (V) -TM (RF (MF))", "METAKOM MK4-X (V) -TM (RF (MF))", "METAKOM MK6-X (V) -TM (RF (MF))" (hereinafter - the call block) are intended for installation in the entrances of residential buildings, at the entrance doors of apartments, offices, etc.

Work is carried out together with subscriber devices manufactured by METACOM (video monitors MKV-VM8, MKV-VM9, TKP-14X tube).

The call block provides video surveillance of the space in front of the entrance door (option with built-in video camera), subscriber's audio connection with the visitor, remote lock opening, as well as the built-in controller and TM reader (RF (MF)) keys (modification with built-in MF reader works only with METAKOM key fobs MF136). The presence of infrared illumination allows you to get an image on a video monitor (at a distance to the observed object not more than 1m.) Even in the total absence of illumination.

The call unit is vandal-proof and can be installed both outdoors and indoors.

2. DISTINCTIVE FEATURES

- Direct call of the subscriber;
- Writing the keys in a common list;
- Removing all keys from memory;
- Ability to record up to 80 keys;
- Disable reading of keys working on protocol DS1990 or TM2002 (for TM version);
- Auto key collection mode;
- Transferring settings from the call block and back using the METACOM MKA-02U adapter and the DS1996 (L);
- Enter the programming mode with the master key;
- Reset to factory settings with saving of recorded keys;
- Separate adjustment of microphone sensitivity and speaker volume.

3. OPERATING FUNCTIONS

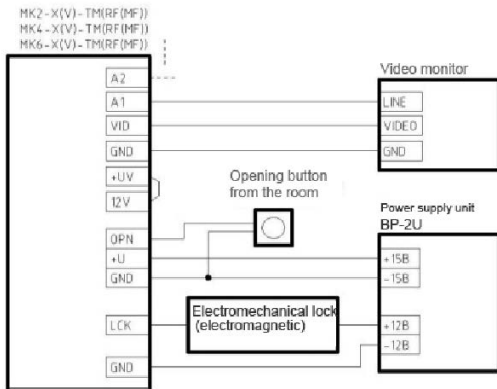
- Indication of operating modes by means of highlighting subscriber numbers;
- Sound control of button pressing;
- Duplex communication with the subscriber-visitor;
- Video monitoring;

- Built-in IR illumination;
- Remote control of electromechanical / electromagnetic lock from the subscriber;
- Highlighting subscribers and button numbers;
- Built-in controller and TM reader (RF (MF)) keys.

4. MAIN CHARACTERISTICS

DC supply voltage, V	15...18
Integrated video camera	Board, 420 tvl. F = 3.7, F = 2
Connection	4-wire circuit
Number of subscribers	2(4,6)
Lock control	2A/30VDC max
Maximum talk time	90 s
Permissible operating temperature range	-30...+40°C -10...+40°C (for the version in the camcorder)
Permissible humidity at + 35 °C	95%
Overall dimensions, no more than, mm	230x76x32
Weight, not more than, kg	0.8

5. WIRING DIAGRAM



Valid for filling

TEAR-OFF COUPON N1

FOR THE WARRANTY REPAIR OF THE CALL BLOCK
METAKOM

MK2 (4,6)

To be completed by the manufacturer

Serial number of the product _____

Release date _____
(day, month, year)

Representative of the QC of the manufacturer

(QC stamp)

Address for return of the coupon to the manufacturer:
Russia, 241024, Bryansk
city, Delegate street, 68, LTD "Metakom"

To be completed by a trade or installation organization

Date of sale _____
(day, month, year)

Seller _____
(signature or stamp)

Stamp of the trade organization:

Date of commissioning _____
(day, month, year)

Installer _____
(signature or stamp)

The stamp of the organization that conducted the installation:

Cut-off line Counterfoil coupon N1 for warranty repair of the METAKOM call block MK2 (4,6)

6. USING THE CALL BLOCK

To call a subscriber, press the call button corresponding to the called party. A beep will sound. The duration of the call signal is set by the monitor used (or the handset). When the handset is removed from the video monitor, the call unit goes into talk mode. To cancel the call, press the call button again.

To open the lock, you must press the lock release button on the video monitor or the handset. If necessary, the sensitivity of the microphone and the volume of the speaker are adjusted by trimmer resistors on the back side of the call block panel.

7. PROGRAMMING THE CALL BLOCK

The type of lock is selected by jumper 3.

For programming, jumpers 1 and 2 are used, LEDs and call buttons for subscribers No. 1 and No. 2 (the two upper LEDs and buttons for MK4 and MK6, hereinafter - **CB1, 2** and **KN1, 2**, respectively).

In the standby mode, jumpers 1 and 2 must be open.

7.1 Programming the master key

- a) Close the jumper **1**.
- б) 2 beeps sound, **CB1** lights up red.
- в) Attach the key to the contact device - you will hear 2 beeps and **CB1** will flash blue 2 times.
- г) The master key is programmed, to exit into standby mode, remove jumper **1**.
- д) To exit into the standby mode without recording the master key, remove the jumper **1** without applying the key.

7.2 Recording of subscriber keys

- a) Attach the **master key** to the contact device. You will hear 3 beeps, the call block will enter the programming mode. The sign of the programming mode is the **CB1** light red.
- б) To write the key, attach the key to the contact device. Successful recording of each key is accompanied by a single beep and a single flashing **CB2** in blue. If the key is already in the memory, 2 short beeps sound and **CB2** flashes red 2 times. When the memory becomes full, 4 beeps will sound and **CB2** will blink 4 times in red.
- в) Exit from the recording mode of subscriber keys is carried out by pressing

8. WARRANTY OF THE MANUFACTURER

The manufacturer guarantees the correspondence of the call blocks "METAKOM MK2-X (V) -TM (RF (MF))", "METAKOM MK4-X (V) -TM (RF (MF))", "METAKOM MK6-X (V) - TM (RF (MF))" to the requirements of MTKM.420570.002 TU 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.

Service life is 5 years from the date of manufacture.

Without presentation of a voucher for warranty repair and (or) violation of the integrity of seals, mechanical, electrical or other types of damage caused by improper transportation, storage, operation or actions of third parties, no claims to quality are accepted and no warranty repair is performed.

The address of the manufacturer:

9. MARKING AND DELIVERY

Example of marking the MK2 call block:
METAKOM MK2-XV-TM
where MK2 - model name
X - four-wire interface
V - presence of the built in videocamera
TM - electronic key reader

Call block	1
Passport	1
Mounting kit	1
Packaging	1



The product is certified

KH1. This will sound 2 beeps and the call unit will go into standby mode.

7.3 Erase Subscriber Keys

- a) Attach the **master key** to the contact device. You will hear 3 beeps, the call block will enter the programming mode. The sign of the programming mode is the **CB1** light red.
- b) Short-term jumper **1**, **CB2** lights up in red.
- c) To start deleting keys, press **KN2**. **CB2** will flash in red and the erasing process will begin. At the end, 2 beeps will sound and the unit will enter standby mode. To exit into the standby mode without erasing the subscriber keys, press **KN1**.

7.4 Programming the duration of the opening of the lock

- a) Attach the **master key** to the contact device. You will hear 3 beeps, the call block will enter the programming mode. The sign of the programming mode is the **CB1** light red.
- b) Press the **exit button** and hold it for the time required to open the lock. In this case, the call unit counts the duration of the hold of the button in the depressed state. The calculated duration is remembered and used hereinafter as the duration of the lock opening. After releasing the button, two beeps will sound and the call unit will go into standby mode.

7.5 Enable / disable auto key collection

- a) Attach the **master key** to the contact device. You will hear 3 beeps, the call block will enter the programming mode. The sign of the programming mode is the **CB1** light red.
- b) Attach the **master key** to the contact device a second time. If autoscore has been disabled, it will turn on, if autoscore was turned on, there will be a shutdown. When the autoscore mode is activated, a single beep will sound, if disconnected, a two-time.
Further, the call block will go into standby mode.

7.6 Disabling Key Protocols

- a) Attach the **master key** to the contact device. You will hear 3 beeps, the call block will enter the programming mode. The sign of the programming mode is the **CB1** light red.
- b) Press **KH2** to select the desired protocol. If **CB2** lights up in red, then the TM2003 protocol (Dallas) is selected. If **CB2** lights up in blue, then the TM2002 protocol is selected.
If **CB2** doesn't light up, none of the protocols are selected.

c) Pressing **KH1** switches on (off) the reading of the keys with the selected protocol. If reading has been enabled, there will be a shutdown, if reading has been disabled, an activation will occur. The turn-on is accompanied by a single beep, the switch-off is two-time. Pressing KH1 with non-firing CB2 leads to the output of the call block into the standby mode.

Further, the call block will go into standby mode.

7.7 Data transfer using Dallas iButtontm key DS1996

- a) Attach the **master key** to the contact device. You will hear 3 beeps, the call block will enter the programming mode. The sign of the programming mode is the **CB1** light red.
- b) Attach the DS1996 key to the reader, the call unit will enter the DS1996 key / read mode.
- c) Pressing **KH2** select the recording or reading mode. If the mode of reading information from the DS1996 key is selected, **CB2** lights up in red if the key entry mode is blue.
- d) Attach the DS1996 key to the reader.
- e) Press KH1 to start the process of writing / reading. If an error occurs during the recording / reading process, a double short beep will sound. After the end of the recording / reading, a beep will sound and the call unit will go into standby mode.
Attention! Wait until the recording / reading is completed correctly, otherwise the information will not be usable.

Note. For RF and MF versions of the call block, for working with the key DS1996 to the terminals of the call block it is necessary to connect the reader of the contact keys (terminals "TM" and "GND").

7.8 Resetting the settings to the factory settings

- a) Close jumper **2**.
- b) All LEDs are red.
- c) To confirm resetting the settings, attach the **master key** to the contact device. You will hear a beep, the settings will be changed to the factory settings.
- d) To enter standby mode, remove jumper **2**.
Note. The key database remains unchanged.

Factory settings for the call block.

Reading TM2003 (Dallas)	abled
Reading TM2002	abled
Opening time of lock	4 s
Master key	not programmed
Autoset keys	disabled

