PASSPORT

NETWORK SWITCHES

METAKOM COM-Net4, METAKOM COM-Net2,

User's manual

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METAKOM

Valid for filling

To be completed by the repair company

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

_____

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Signature of the person who made the repair _____

Date of repair _____
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Signature of the owner of the product, confirming the repair_____

Stamp repair company with the indication of the city:

1.PURPOSE

The network switches METAKOM COM-Net4, COM-Net2 (hereinafter referred to as the network switch) are intended for switching of subscriber lines in intercom systems based on the METACOM call blocks for the organization of the gate-gate system and are designed for connection to the METAKOM coordinate commutators COM-80U (D) , METACOM COM-160U (D), METACOM COM-220U (D). Metakom COM-Net4 allows you to connect up to 4 network outdoor panels MK2012-N, METAKOM COM-Net2 - up to 2 network outdoor panels MK2012-N.

2. PRINCIPLE OF OPERATION

To establish communication with the subscriber, the network outdoor panel on the AB line (see the block diagram in Fig. 2) transmits the called party number to the network switch. The network switch communicates with the corresponding subscriber via a coordinate switch and connects the subscriber's handset to the audio line of the network unit.

3. CONNECTING THE NETWORK SWITCH

The outputs of the outdoor panels are connected to the corresponding inputs of the network switch, that is, A B of the first outdoor panel to the A1 B1 switch, A B of the second outdoor panel to the A2 B2 switch, GND outdoor panel- GND switch, LIN of the first outdoor panel - L1N switch, LIN second outdoor panel- L2N switch.

To the GND, 12V Out, DT Out, LN Out terminals, an access coordinate switch is connected. The network switch supports the ability to expand switches to seven (the number of subscribers served can not exceed 1500).

To the GND, 12V In, DT In, LN In terminals, outdoor panel is connected. If the MK2003 (MK20003.1) is used as the approach outdoor panel, or if the distance from the outdoor panel to the network switch exceeds 15 meters, the power supply of the switch must be from the voltage of 15 ... 18V supplied to the + U input. In this case, the 12V In input of the network switch must not be connected..

The output of the network switch is indicated in Fig. 1.

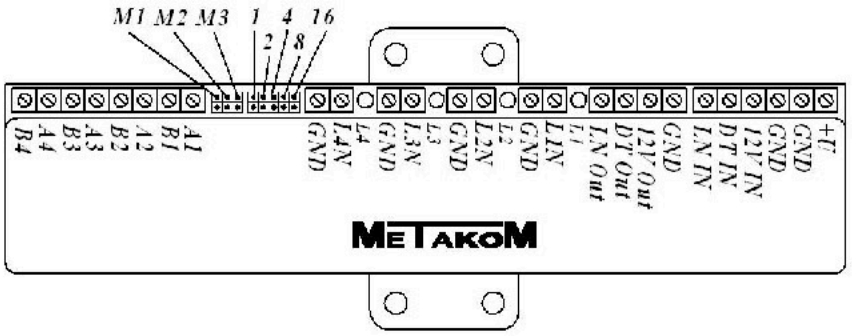

Figure 1. Designation of outputs and jumpers of the network switch..

4. PROGRAMMING THE NETWORK SWITCH

To implement the operation of the network switch, it is necessary to configure its network number in accordance with the installation diagram of the equipment. The network number is set using five jumpers 1 2 4 8 16 located near the terminal blocks. The network number of the switch is calculated by the formula: A = J1 * 1 + J2 * 2 + J4 * 4 + J8 * 8 + J16 * 16, where JN = 1 if the corresponding jumper is closed and JN = 0 if it is open. The minimum number is 1, the maximum is 31.

To configure the operating modes of the network switch, there are 3 jumpers M1, M2, M3.

Jumper M1 - enter the configuration mode of the switch parameters.

Jumper M2 - enter the reset mode to factory default settings.

Jumper M3 - enter the test mode of the subscriber line.

Entering the configuration modes is accomplished by closing the corresponding jumper when the switch's power is off. When the power is turned on, the corresponding mode is entered. Exit the corresponding mode by removing the jumper.

Switch configuration mode (M1).

Before configuring the parameters, you must set the network number of the switch. When the power is applied, the 4 LEDs turn on briefly and go out. This means that you have entered the parameter setting mode.

Parameters are entered from the network outdoor panel MK2012-N or other supporting work with network switches. On the outdoor panel you must enter the network switch programming mode.

After entering the mode, you must enter the network number of the network switch you want to configure ("nC_ _"). Next, enter the number of the custom function. ("FC_ _")

Cut-off line Counterfoil coupon N1 for warranty repair of the METACOM network switch COM-NET2(4)

Valid for filling

TEAR-OFF COUPON N1

FOR WARRANTY REPAIR NETWORK SWITCH

METACOM COM-NET2 (4)

To be completed by the manufacturer

Serial number of the product _____

Release date _____
(day, month, year)

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

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Stamp of the trade organization:

Date of commissioning _____
(day, month, year)

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The stamp of the organization that conducted the installation:

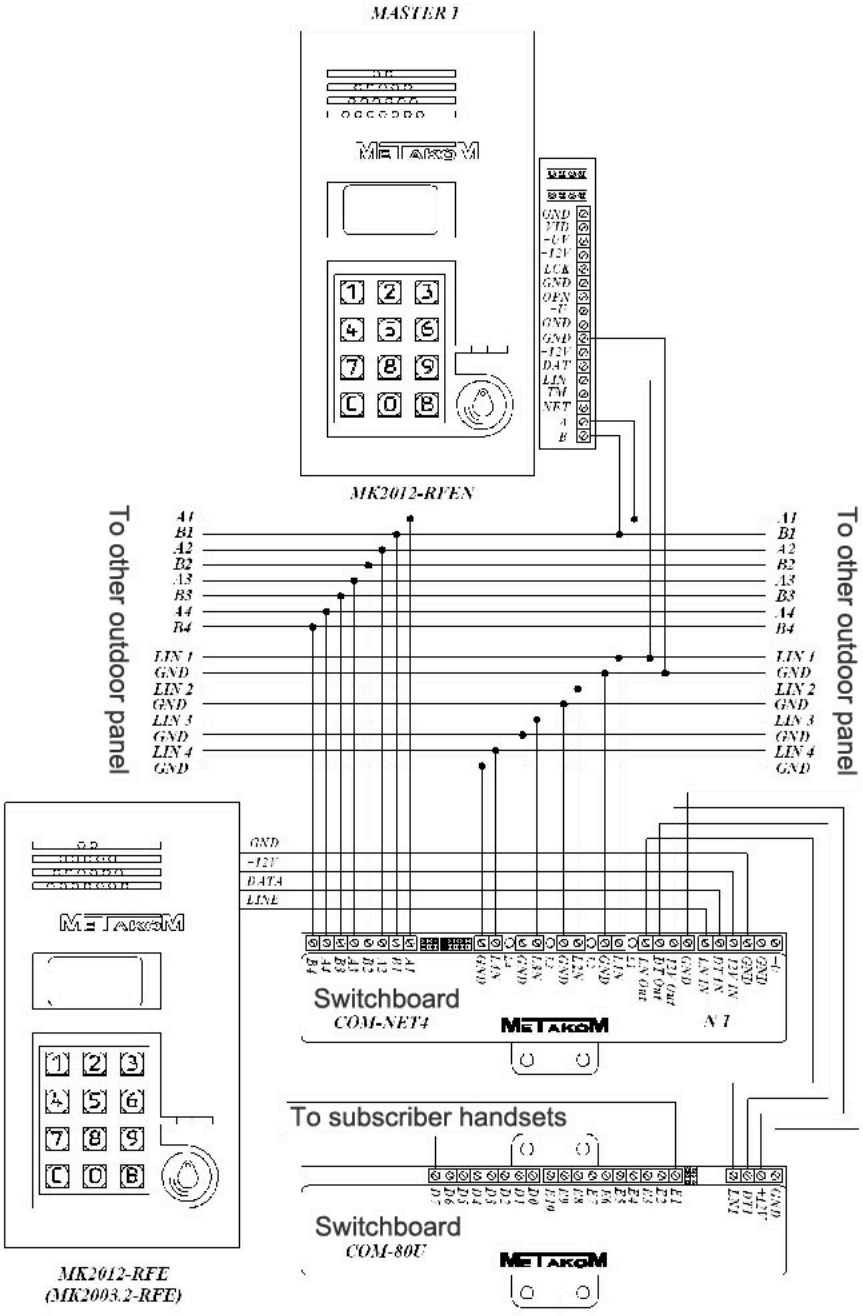

Fig.2. Network switch connection.

No. 1 - The initial number of the subscriber for 1 switch.
No. 2 - The final number of the subscriber for 1 switch.
No. 3 - The initial number of the subscriber for 2 switches.
No. 4 - The final number of the subscriber for 2 switches.
No. 5 - The initial number of the subscriber for the 3 switches.
No. 6 - The final number of the subscriber for the 3 switch.
No. 7 - The initial number of the subscriber for 4 switches.
No. 8 - The final number of the subscriber for 4 switches.
No. 9 - The initial number of the subscriber for the 5 switch.
No. 10 - The final number of the subscriber for the 5 switch.
No. 11 - The initial number of the subscriber for the 6 switch.
No. 12 - The final number of the subscriber for the 6 switch.
No. 13 - The initial number of the subscriber for the 7 switch.
No. 14 - The final number of the subscriber for the 7 switch.
No. 15 - Number of switches connected to the network switch.
No. 16 - Setting the threshold for determining the position of the subscriber handset for the network switch.
No. 17 - Setting the threshold for the opening of the lock button on the subscriber's handset for the network switch.
No. 18 - The time of the call of the visitor to the subscriber.
No. 19 - Duration of the subscriber's ringing signal.

To enter the function, enter the value of the function and press "B". In case of incorrect input or error when transferring data to the network switch, an error message will be issued to the indicator of the outdoor panel, in this case it is necessary to repeat the data entry. Exit the function by pressing the "C" button.

Functions 1, 3, 5, 7, 9, 11, 13. After entering the function, the message "LO_N" will be displayed on the indicator of the MK2012-N panel, where N is the coordinate switch number. The minimum value for input is 1, the maximum is 1500. The factory value for the first coordinate switch is 1, for the rest - 0.

Functions 1, 3, 5, 7, 9, 11, 13. After entering the function, the message "LO_N" will be displayed on the indicator of the MK2012-N panel, where N is the coordinate switch number. The minimum value for input is 1, the maximum is 1500. The factory value for the first coordinate switch is 220, for the others - 0.

Function 15. After entering the function, the message "dF_ _" will be displayed on the indicator of the MK2012-N panel. The maximum number of switches is 7, the minimum is 1. The factory setting is 1.

Function 16. After entering the function, the message "dF_ _" will be displayed on the indicator of the MK2012-N panel. The maximum threshold level is 100, the minimum is 1. The factory setting is 50.

Function 17. After entering the function, the message "dF_ _" will be displayed on the indicator of the MK2012-N panel. The maximum threshold level is 60, the minimum is 1. The factory setting is 30.

Function 18. After entering the function, the message "dF_ _" will be displayed on the indicator of the MK2012-N panel. Maximum value for input

is 200, the minimum value is 1. The factory setting is 50.

Function 19. After entering the function, the message "dF_ _" will be displayed on the indicator of the MK2012-N panel. The maximum value for the input is 60, the minimum value is 1. The factory setting is 10.

After exiting mode 4, the LEDs turn on briefly and go out.

Reset mode to factory settings (M2).

The mode is entered by shorting the M2 jumper when the switch's power is off.

When power is applied, LEDs L1, L2, L3, L4 alternately turn on. This means that the parameters overwrite the factory settings. To exit, remove the jumper M2.

Subscriber line testing mode (M3).

The mode is entered by closing the M3 jumper when the switch's power is off.

When the power is supplied, the first subscriber will beep (the subscriber tube is connected to the terminals E1, D0 of the coordinate switch). On the LEDs of the network switch, the current position of the handset will be displayed.

LED L1 is on - short circuit of the audio line.

LED L1 is on, L2 - the handset is placed on the stand.

LED L1, L2, L3 is on - the handset is removed from the stand.

LED L1, L2, L3, L4 is on - an open or pressed door open button on the handset.

To exit, remove the jumper M3.

5. CONTENTS OF DELIVERY

Network switch METAKOM COM-Net4, COM-Net2	1 pcs.
Passport	1 pcs.
Fasteners	1 set
Individual packing	1 pcs.

6. WARRANTY LIABILITIES

The manufacturer guarantees the compliance of the METAKOM network switch COM-Net4 (COM-Net2) with the requirements of MTKM.420570.003 TU when the user applies 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.

In case of violation of the integrity of seals and / or the presence of mechanical, electrical or other types of damage caused by improper transportation, storage, operation or actions of third parties, claims for quality are not accepted and warranty repairs are not made.

7. CERTIFICATE OF ACCEPTANCE

Network switch METAKOM

☐ COM-Net2
☐ COM-Net4

complies with the technical specifications and is considered suitable for operation.

Release date _____

OTK representative _____ seal

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EAC

The product is certified