4. CONTENTS OF DELIVERY

METACOM switch	1 pcs.
Passport	1 pcs.
Fasteners	1 set
Individual packing	1 pcs.

5. WARRANTY LIABILITIES

The manufacturer guarantees the compliance of the METAKOM COM-100U (COM-100UD) 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.

The service life of the product is 5 years 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..

6. CERTIFICATE OF ACCEPTANCE

Coordinate commutator METAKOM

☐ COM-100U ☐ COM-100UD

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

Release date_____

OTK representative_____ seal

The address of the manufacturer:
Russia, 241024, Bryansk, Delegate str., 68, LLC "Metacom"
tel./fax: (4832) 68-28-26
Tel. (4832) 68-28-25
http:// www.metakom.ru E-mail: os@metakom.ru

The product is certified

Commutator switch

METACOM COM-100U (COM-100UD) PASSPORT

1. PURPOSE

Commutator switch METAKOM COM-100U (METAKOM COM-100UD) is designed for switching of subscriber lines in intercom systems based on the calling panels METACOM and is designed for connection of up to 100 subscribers respectively. The index "D" in the name of the switch means the possibility of connecting three call panels.

2. PRINCIPLE OF OPERATION

To establish communication with the subscriber, the call panel on the DTx line transmits the called party number to the switch. The switch, according to the subscriber's number, includes one of the 10 keys of the "Ten" bus and one of the 10 keys of the "Units" bus, thus ensuring the connection to the audio line of the intercom of the required subscriber's handset.

3. CONNECTING CALL PANELS

The outputs of the outdoor panel are connected to the corresponding inputs of the switch, ie + 12V of the calling panel to + 12V of the switch, GND of the panel - GND switch, LINE of the panel - LN1 of the switch, DATA of the panel - DT1 of the switch. The connection scheme of the subscriber handsets to the switch is shown in Fig.

When using the outdoor panels that allow the expansion of the switches (see call panel certificate) to increase the number of served subscribers, J1, J2, J3 jumpers must be installed in accordance with the address of the switch in the network. The address of the switch is calculated by the formula:

$$A = J1*1+J2*2+J3*4,$$

where JN = 1 if the corresponding jumper is closed and JN = 0 if it is open. The location of the jumpers is shown in Fig. 1.

Example of a scheme for connecting three switches to one outdoor panel is shown in Fig.4

If the calling panel doesn't allow the expansion of switches or only one switch is installed, then jumpers should not be installed..

For correct operation, it is necessary that the TYPE jumper be removed (before turning on the power).

To work with the outdoor panel MK2003.2, in some cases, for all subscribers, it is necessary to set a threshold for normal positioning of the handset in standby mode. This is done through the appropriate menu item programming the outdoor panel.

If the switch works with the modification of the outdoor panel MK2003.2

that doesn't involve teamwork and the number of subscribers doesn't exceed 80, then in the settings of the outdoor panel it is necessary to select the type of the COM-80 switch. If the number of subscribers exceeds 80, then in the settings of the outdoor panel, you must select the type of the COM-160 switch.

Switches with index "D" are designed to connect three calling panels (see Figure 3). When the connection is established, the switch selects a conversation line (LN1 or LN2 or LN3) of the calling panel from which the subscriber number was received.

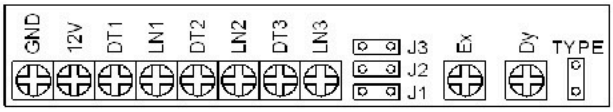

Fig.1. Location of jumpers.

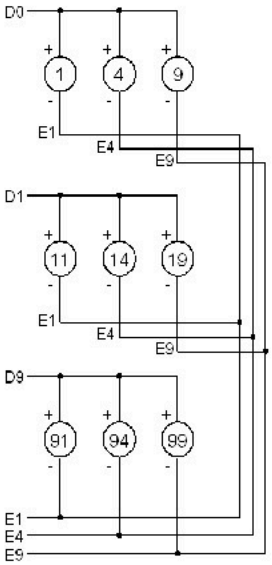

Fig.2. The scheme of connecting handsets to the switch.

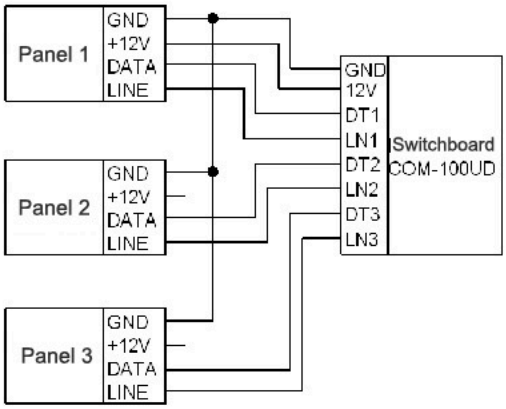

Fig.3. Connection of three call panels.

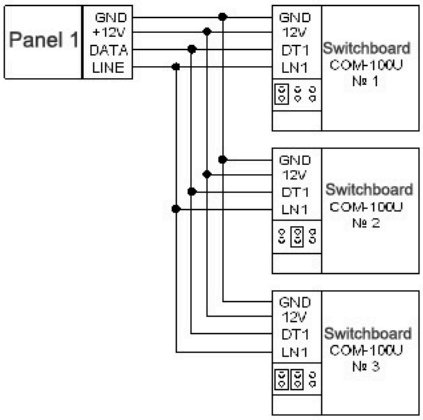

Fig.4. Connect three switches to one call panel.