



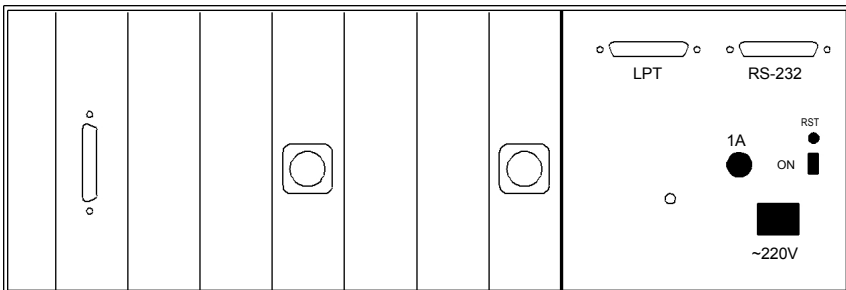
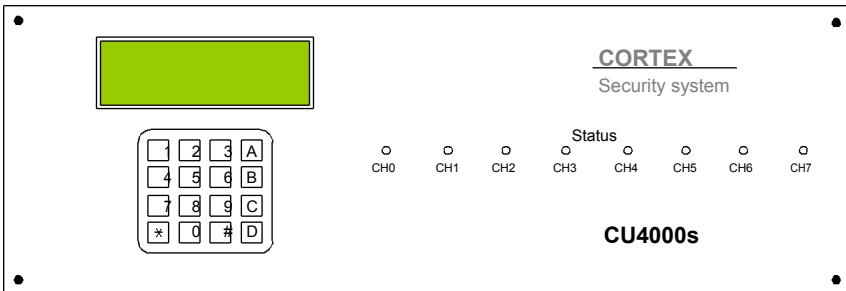
Central station CU-4000s

The user's guide.

2003 y.

Central station CU-4000s

Multichannel (up to 8th channels) system of reception of the information and consist of the central block of processing and installed on it slot receivers. On the forward panel the LCD-INDICATOR, the keyboard and 8th light-emitting diodes, indicating a status of slot receivers. On a back wall are located sockets of a feed (**220 V**), COM-port, LPT-port and the power button. And also, at presence of inserted slot receivers, on them are located additional sockets for connection of the aerial or etc. The board supports data formats **Cortex1000 (receiver RR-1000)** and **Cortex4000 (receiver RR-4000)** and correctly works with devices, which have the same format.



The order of switching on.

1. Connect necessary devices (computer, printer etc) to the block with corresponding cables.
2. Connect by a cord the external power supply **220 V**.
3. Press the power button (on a back wall).
4. The system will be switched on with the subsequent initialization of the slot devices.

The operating procedure

After switching on the power, initialization of system begins, during which presence and serviceability of its components is checked, and also starts detected slot devices (in case if it is authorized individually for every slot).

During initialization there can be following fatal mistakes after which the system stops loading, displaying, during some period of time, the arisen error and then is switched off. There can be following errors:

- Is absent or it isn't working **RTC**(Real Time Clock).
- The battery established in **RTC** isn't working.
- Is absent or isn't working microcircuit **EEPROM**.
- Is absent or isn't working microcircuit **RAM**

If the specified above mistakes are not revealed, then search and initialization of slot receivers are made, according to an operating mode established in **Setup** for every slot.

After all slot receivers are initialized, the system passes in an operating mode (*on duty menu*). In this mode at the left in the top line of the indicator the quantity{amount} of the accepted{incoming} messages is displayed, which have been written down in memory of the system; date / time and a part of the first message, which have been written down in the memory. For more detailed considerations see « **On duty menu** ».

The keyboard

The given instruction is valid for the version of the software of the block bigger than version 2.09.

It is used for management of system and conditionally consist of three key groups: digital, functional and managing.

The group of digital keys is 0,1,2..., 9, are used for input of digital values.

The group of functional keys:

* It is used as **Cancel** or **Quit**, and also as an Input in the menu

tl is used as *Ok*.

And at last group of managing keys to which concern:

- A** Works as **PgUp**.
- B** Works as **PgDown**.
- C** Works as up arrow.
- D** Works as down arrow.

In some menus purpose of the specified keys can varies.

The review of system menu

The system menu consist of **on duty menu, menu of the list of a submenu, menu of options** and special menus. By pressing any key, if illumination of LCD has been switched off, it will switch on(on that level of brightness which has been established, see **System ► LCD**) and will automatically be switched off, if within 10 seconds any key will not be pressed. Also it would be desirable to note, that the system automatically comes back in « **On duty menu** » if within 2 minutes any key is not pressed.

Keys:

1.. n Enter the menu **n**
0, * To return on a step
↑/↓ Choice of an element of the menu
Enter the menu

The list of a submenu

At the left in the top line in square brackets you will see the name of a submenu. And also there are displayed the numbered list with names of a submenu. Pressing keys **↑/↓**, you can choose the necessary element of the list and enter it, by pressing **#**. You can make the same, pressing correspondable to the menu digital key, certainly, if you know the number of the necessary menu for sure. In this case the menu is carried out at once without confirmation by key **0**. To return to the previous menu, press ***** or **0**.

Keys:

PgUp increase value
PgDn decrease value
▲ ▼ option choice
***** exit without save
exit with save

The options menu

In the options menu there are two variants of values: elements such as **Yes/No** and digital. For the first variant it is possible to switch **Yes** on **No** and on the contrary. In case of digital value, it can be changed in established limits. For increase / decrease of value, press **PgUp/PgDown**. If value needs to be changed considerably there is an opportunity to keep a key up to achievement of necessary value. For a choice of an element of the menu use **↑/↓**. If brought changes are

incorrect or you are not sure in them, it is possible to leave, not saving them, by pressing *. To save changes, press #.

The on duty menu

It is the menu in which the system passes after inclusion of power and successful end of process of the initialization. The indicator displays: date/time, number of messages saved in memory, and a part of the message, which is first in memory of messages. After the next message comes there will be made the search of the same messages in memory, and if such message already exist in the memory, it does not enter the memory. Otherwise the message is saved in memory, the counter of messages increases and the periodic faltering sound signal (the period is 7 seconds) is switched on. Thus the part of the message first in memory, which can be shifted to the left/to the right by keys ↑/↓, is displayed only. If it is necessary to look through the memory of messages in the unwrapped form it can be made, by entering the menu " **the expanded viewing** », by pressing 0 (see lower). If you want to delete message from memory press . The sound signal will be switched off at deleting of the message, or at transition in the expanded viewing.

Keys:

- * An entrance in the menu
- A A status of system
- ↑/↓ Viewing the message
- # To remove the message
- 0 expanded viewing

At display of the message it looks as follows:

- | | |
|------------------|--|
| The first figure | Number slot devices from which the given message [0-7] is accepted |
| The second | (through a hyphen) the address of a source of a signal |
| The third figure | (in square brackets) a level of a signal of the accepted message [1-8] |
| | Further it is displayed actually the data of the message |

Also on the indicator it is possible to observe a status of the accumulator, a source of an external power and the communications instead of displaying of date, and on the contrary, pressing **PgUp**. The

status of the accumulator is displayed as a symbol of a battery, and on its fullness degree it is possible to judge about status of the accumulator. The external power supply is displayed as a plug, and this symbol burns constantly at the connected power supply, otherwise this symbol will blink. At change of a status of the accumulator or the external power supply the periodic sound signal (the period of 10 seconds) is switched on, and display of date is switched to display of a status of the accumulator, etc. To switch off a sound signal, press **PgUp**.

***Note:** during the communications with a computer sound signals are not formed also the message is impossible to delete from memory by the keyboard*

For an input{entrance} in the main menu press .



The expanded viewing of messages memory

In that menu is possible to look through, in the unwrapped form, all messages memory, not deleting them from memory. Looking through memory, it is possible to move forward / back on one message, using keys ↑/↓. By pressing any of these keys instead of the message there is a counter of **Keys:** messages where are specified number of message / amount of messages. Also there is an opportunity of transition at once in the beginning / end of messages memory, using accordingly **PgUp/PgDown**.

Keys:

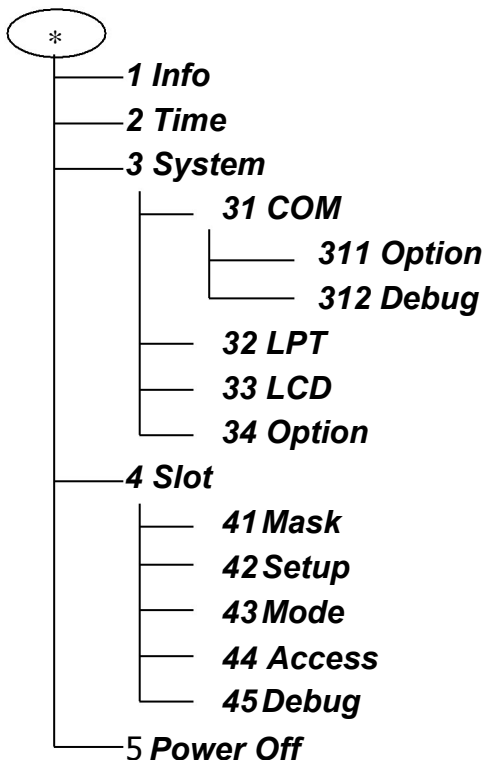
PgUp Return from viewing
Transition to the
beginning of memory
PgDn Transition in the
end of memory
↑/↓ scrolling messages

deleting them
through
move forward /
keys ↑/↓. By
instead of the
of **Keys:**
specified
of messages.
of transition at
of messages



Structure of the menu

The menu is the following treelike structure:



Keys:

1.. n Enter the menu *n* 0,

* To return on a step

↑/↓ Choice of an element of the menu

Enter the menu



Info

Serial number, **RAM** volume and the status of slot devices is displayed: functioning / connected.



Time

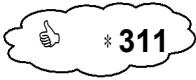
Date / time, day of week and mode of automatic translation of time (summer / winter) is establishing system.

Keys \uparrow/\downarrow to choose a position and to establish desirable value with the help of **PgUp/PgDown**. The key **0** switches on / switches off a mode of automatic translation of time (**DSE**).

Day of week is established in the following conformity:
1-Sunday, 2-Monday, 3-Tuesday, 7-Saturday

Keys:

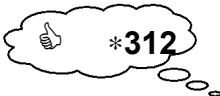
- * back
- 0 auto adjust of time
- 1..7 day of week, 1-Sun
- \uparrow \downarrow choice position
- PgUp increase
- PgDn decrease



System ► COMM ► Option

Are established:

An index of exchange speed: 0-3
Support «Flow Control»: Y/N



System ► COMM ► Debug

Has no any practical interest for the user.



System ▶ LPT

It is established:

The sanction of writing: **Y/N**

The size of messages memory write: **0-7**

Reaction to the gauge «*the End of the Paper*»: **Y/N**



System ▶ LCD

Brightness of indicator illumination is established. Keys **PgUp**, **PgDown** it is possible to switch on illumination on a maximum, or to switch off in general. And for more exact adjustment use keys \uparrow/\downarrow . Further for saving the established value of brightness press **#**. If it is necessary to leave the menu without preservation, press *****.

Keys:

- PgUp** max brightness
- PgDn** min brightness
- \uparrow/\downarrow brightness change
- *** exit without save
- #** exit with save



System ▶ Option

It is established:

sound of key pressed: **Y/N**

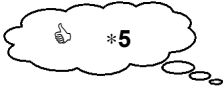
Duration of a delay of autorepeat of a key: **0-3 (0,5-2cek)**

A mode of replacement of identical messages by the last: **Y/N**



Slo **t**

All manipulations in this block of the menu are carried out by qualified personnel, and access to it is carried out through a code of access.



Power Off

This item of the menu is stipulated for reenergizing system and demands confirmation #, or a cancellation of this operation *.