

LED KEYPAD model CA-10 KLED-M



ca10kl_m_e 03/03

The keypad, model CA-10 KLED-M, is to be used for operation with the alarm control panel CA-10 plus, as well as with the previous model of the alarm control panel designated as CA-10, manufactured in version 3.0 (and next), working with LCD keypads. Full compatibility with LED keypad, model CA-10 KLED, is maintained - apart from the possibility of keypads parallel connection.

FEATURES

The keypad operates as a microprocessor-controlled device. Smaller size and new design make new capabilities in its installation. Horizontal arrangement of LEDs improves legibility of information displayed during programming the parameters of the alarm system.

In addition to all features of the previous model, CA-10 KLED-M keypad permits:

- simultaneous displaying the status of all 16 zones of the system,
- displaying the status of all partitions of the system,
- setting the keys backlit mode (no backlit, automatic, permanent),
- visualization when acoustical signalling (buzzer) is in operation,
- signalling the loss of communication with the alarm control panel.

DESCRIPTION

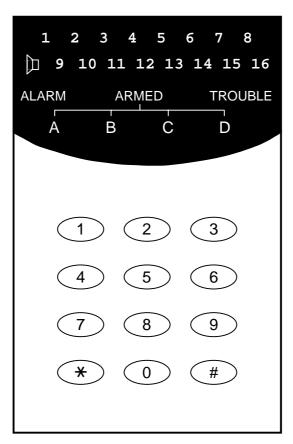


Figure 1. Keypad's view.

THE MEANING OF LEDs DISPLAY (during normal operation):

LEDs 1-16 indicate the status of armed zones of the alarm system, as follows:

- extinguished zone secured (not activated),
- steady light zone violated (activated),
- steady light with short extinguishing every 2 seconds violated anti-tamper circuit of zone,
- fast blinking zone activated alarm,
- flashing every 2 seconds alarm initiated by anti-tamper circuit of zone,
- slow blinking zone bypassed.

It is possible to display the status of all zones of the system (programming the servicing functions FS-12 to FS-15). When a smaller number of zones to be displayed is selected, the zones are displayed on consecutive LEDs, beginning at LED 1 and ending at LED's number equal to the number of selected zones - the remaining LEDs, which symbolize zones are extinguished. The zones are displayed in the increasing order.

The LED marked by the symbol \square is ON when the acoustical signalling (buzzer) is in operation.

ALARM diode signals the alarm occurrence.

TROUBLE diode blinks in case of detecting, by the control panel, technical problems in the alarm system.

Diodes designated as **ARMED** (A, B, C, D) indicate the status of particular partitions of the system - these diodes are equivalent to the diodes of LCD keypad:

- A PARTITION 1
- **B-PARTITION 2**
- **C-PARTITION 3**
- **D-PARTITION 4**

Steady light - partition armed and supervised.

Slow blinking - counting down the time for exit (at ALARM diode extinguished).

Fast blinking - the keypad is switched over for operating a given partition by GOTO function (active signalling when the given partition is not armed and is not counting down the time for exit).

The simultaneous blinking of all LEDs (at 0.5s/0.5s rate) informs the user about the loss of communication between the keypad and the alarm control panel.

The LED's functions are changed at activating the servicing mode or at entering the user function mode.

NEW USER FUNCTION

The keypad is equipped with a new user function (HOLD DOWN type). This is the function of "9" key, for setting the keys backlit - the function independent from the installer's settings.

After re-starting the system (switching on the power supply), the keypad always operates in the automatic backlit mode - initiated by pressing any key. To change the backlit mode, press "9" key and hold it until appropriate signal is heard, as follows:

One beep - no backlit

Two beeps - automatic backlit
Three beeps - permanent backlit

KEYPAD CONNECTIONS

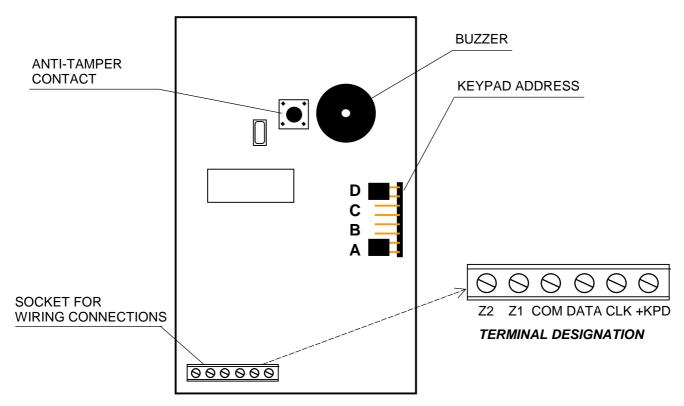


Figure 2. The view of the board with electronic elements.

The procedures for connecting the keypad to the main board and for using Z1 and Z2 terminals are described in the "Alarm Control Panel CA10 plus - Installation Guide" in chapter "Connection of Keypads".

The permissible run length and cross-sections of the wiring are the same as those applicable for LCD keypad.

CAUTIONS

- LED keypads designated as CA-10 KLED-M (described in this manual) similarly as LCD keypads can not be connected in parallel.
- After switching on the power supply to the keypad, and after the control panel exits the servicing mode - the keypad is interlocked for 5 seconds and does not respond to pressing any key. During this period, the readings of system settings takes place and key backlit blinks at high frequency.

TECHNICAL DATA

Power supply voltage	11-14V
Maximum current consumption	. 85mA

