Satel®
LED KEYPAD
model **CA-6 KLED-S**

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The keypad, model CA-6 KLED-S, is to be used for operation with the alarm control panel CA-6 plus, as well as with the previous model of the alarm control panel designated as CA-6. Compatibility with LED keypad, model CA-6 KLED, is maintained.

CAUTION*: Do not connect two keypads of different types to the CA-6 control panel (v2.xx - with a radiator). If it is necessary to connect two keypads in parallel to the CA-6 control panel, both of the keypads must be of the same type.*
The CA-6 plus panel (v3.00 and later – with pulse power supply) supports various types of keypads connected in parallel.

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-6 KLED-S keypad permits:

- 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.
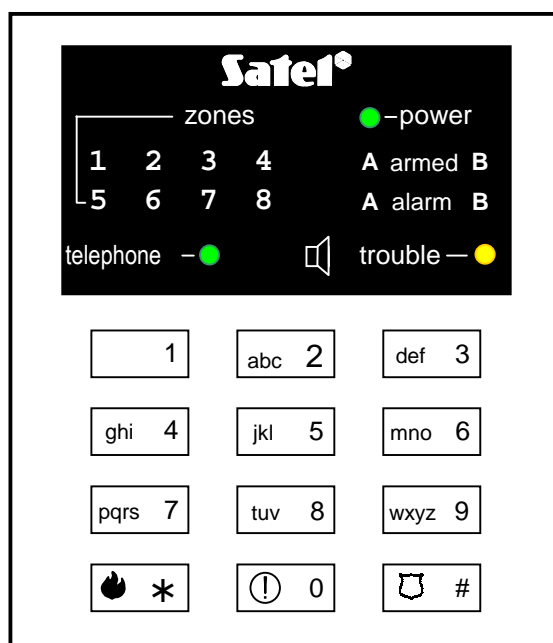
DESCRIPTION

Figure 1. Keypad's view.

THE MEANING OF LEDs DISPLAY (during normal operation):

LEDs 1-8 indicate the status of zones of the alarm system, as follows:
- extinguished - zones secured (not activated),
- steady light - zones intruded (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.

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

ALARM (A,B) diodes signal the alarm occurrence.

ARMED (A,B) diodes indicate the partition status. LED's steady light indicates that the partition is supervised, flashing (at ALARM diode extinguished) shows counting down the time for exit.

POWER diode informs about the condition of the control panel power-supply:
- steady light - AC power and battery in operation
- flashing - battery low voltage
- off - AC power loss

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

TELEPHONE diode - lights when a telephone line is taken by the control panel.

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

TERMINAL DESIGNATION

| Z2 | COM | Z1 | | KPD | CLK | DTA |

DESCRIPTION OF TERMINALS	
KEYPAD	**PANEL**
KPD	+KPD
DTA	DATA
CLK	CLK
COM	COM
Z1 – to detector	Additional system zones
Z2 – to detector	

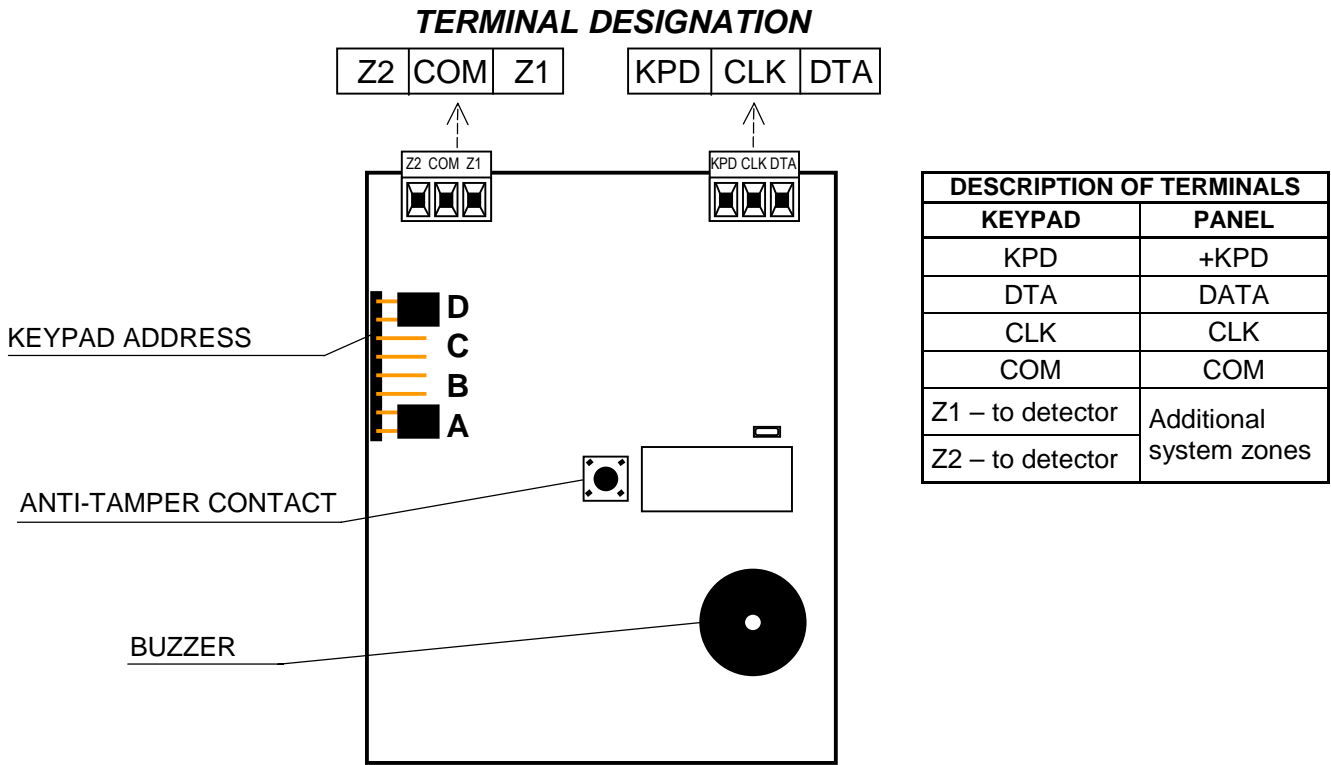KEYPAD ADDRESS

ANTI-TAMPER CONTACT

BUZZER

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 "*SATEL CA-6 plus -* Programming Functions List" on pages 17 and 20.

TECHNICAL DATA

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

LEDs 1-8 (zone status)
steady light - zone violated
extinguished - zone non violated
fast blinking - alarm from zone
steady light with short extinguishing every 2 sec - anti-tamper circuit of zone violated
flashing every 2 sec - zone tamper initiated alarm
slow blinking - zone bypassed

ARMED (supervision)
steady light - partition armed
blinking - counting down the time for exit

ALARM – diodes signals the alarm occurrence

◁ – buzzer operation indicator

POWER:
- steady light - AC power and battery in operation
- flashing - battery low voltage
- extinguished - AC power loss

⑦ - pressing for 3 sec results in displaying **the troubles currently detected**

Trouble type display:
1,2,3 - Output 1,2,3 trouble
   4 - AC fail
   5 - Low battery
   6 - Keypad supply fail
   7 - Time lost
   8 - Reporting trouble
A_ARMED - Tel. line disconnect
B_ARMED - Tel. trouble (wrong signal)
A_ALARM - Tel. trouble (no signal)
B_ALARM - System memory fault

TROUBLE - indicates the detection of technical problem of a system - check it by pressing ⑦ key.

TELEPHONE - lights when a telephone line is taken by the control panel

⑥ - pressing for 3 sec activates the trouble memory review.

⑨ - pressing and holding the key selects the key backlit mode:
1 beep   - no backlit
2 beeps - automatic
3 beeps - permanent

⊛ - pressing for 3 sec activates **FIRE ALARM**

CODE + [*] = user functions:

CODE*1 - code change
CODE*2 - new code
CODE*3 - code cancellation
CODE*4 - bypassing the inputs
CODE*5 - silent supervision
CODE*6 - setting the clock
CODE*7 - monostable switch
CODE*8 - bistable switch
CODE*9 - power supply reset
CODE*0 - start of downloading

- pressing for 3 sec activates **PANIC ALARM**

CODE + [#] - armed on\off

⑤ - pressing for 3 sec activates the **alarm memory review**

⓪ - pressing for 3 sec activate **auxiliary ALARM**

⑧ - pressing for 3 sec switches **ON/OFF chime signalling**

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zones   ● –power
1   2   3   4   **A** armed **B**
5   6   7   8   **A** alarm **B**

telephone– ●   ◁ trouble — ●

1	abc 2	def 3
ghi 4	jkl 5	mno 6
pqrs 7	tuv 8	wxyz 9
🔥 *	! 0	🛡 #