PAX KBD
Wireless Control Keyboard
Installation and Operation User Manual

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Attention! This manual contains information on limitations regarding product use and function and information on the limitations as to liability of the manufacturer. The entire manual should be carefully read!

General Description

PAX KBD is a wireless control LED keyboard for operation with BRAVO Next and Eclipse series control panels. The operation with Eclipse control panels is via PAX WL Expander module. The keyboard is equipped with a wide-angle detection dual sensor for automatic activation of the buttons' backlight in case of movement in front of it. The built-in light sensor detects the amount of ambient light in the room and controls the keyboard backlight activation for improving the battery life and conserve more energy.

Functional Features

- Arming in Full or Partial (Stay or Sleep) Arming Mode and Disarming of the system
- LEDs for system status – armed, disarmed, technical trouble, memory events
- Supports operation with up to 6 User codes, 1 Manager and 1 Engineer code
- Built-in sensors for buttons' backlight activation and ambient light
- Wall mounting bracket

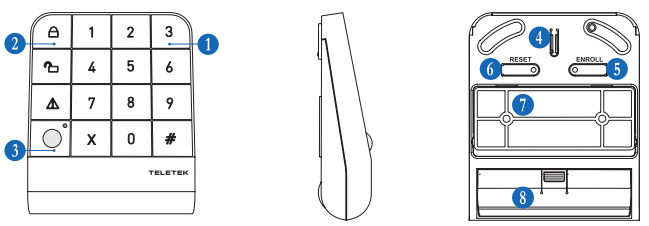
Technical Characteristics

Battery (type CR123A)*	2 x 3 V/ 1500mAh
Battery life	~1.5 years
Operation frequency	~868 MHz
Communication type	Two-way
Communication protocol	Beacon+
Radio distance (open space)	Up to 1500m
Indication type	LED
Working temperature	-20°C - +55°C
Dimensions	102 x 84 x 25 mm
Weight (including batteries)	~140g

ATTENTION:
Use only Panasonic batteries approved by the manufacturer, type CR123A 3V/ 1500mAh! Use only IEC 60086-4 tested batteries!

PAX KBD Elements

Front view **Side view** **Rear view**



1 - Operation buttons:

0-9 - Digit buttons for entering of user codes, address numbers, values

- Enter into keyboard programming menus; confirmation of entered codes or values

X - Cancel operations; step back in programming menus; exit from programming menus

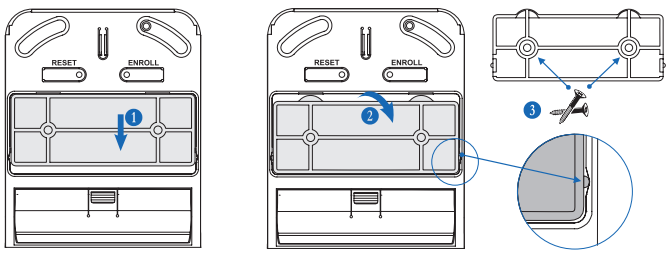
2 - System status buttons and indication - see on the next page
3 - Built-in sensors for buttons backlight activation and ambient light
4 - Tamper switch
5 - ENROLL Button
6 - RESET Button
7 - Mounting bracket
8 - Battery compartment

Installation Instruction

IMPORTANT NOTES: The PAX KBD wireless keyboard should be installed in a minimum distance of at least 2 meters far from other sources of radio signals (power lines, Wi-Fi or Bluetooth routers, wireless phone stations, etc.). The minimum distance between the BRAVO Next panel/PAX Expander module and enrolled PAX KBD keyboard must be at least 1 meter to guarantee the proper operation of the system.

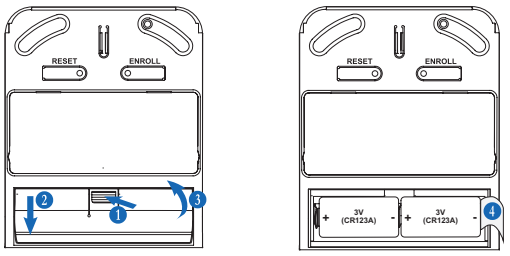
You should consider also that the presence of electromagnetic disturbances may trigger the near field sensor of PAX KBD and to turn on the background lights of the device!

Mounting Bracket



1 - Slide down the mounting bracket to unlock the side pins.
2 - Pull up the bracket outside the rear back cover.
3 - Use the suitable screws, according the mounting surface, to mount the bracket on the place of installation. The manufacture recommends using flat head screws 3.5x30mm.
4 - When the enrollment of the keyboard is finished, place it to the bracket as first match the side pins into the holes and then pull down to lock.

Batteries Compartment



1 - Press slightly the clip of the batteries compartment.
2 - Move the cover of the compartment downwards.
3 - Pull up the cover to open the compartment.
4 - Pull up the protective folio of the batteries to power up the keyboard and to start enrollment to the system configuration.
5 - Close the batteries compartment.

Enrollment of PAX KBD to Control Panel

(You should also refer to BRAVO Next and PAX WL Expander module full installation and operation manuals for more details.)

Important: *BRAVO Next panel supports operation with only one PAX KBD!*
In Eclipse hybrid system with PAX Expander module, the number of supported PAX KBD keyboards depends on the type of the control panel.
Note: *For already used PAX KBD, first perform RESET procedure!*

- Enter in Device Programming menu of the used control panel.
- Select a free wireless device number.
- Initiate enrollment procedure – the panel starts searching for wireless devices in its range.
- Enroll the keyboard as:
  If the PAX KBD is new: Open the batteries compartment and remove the protection folio – the green LED blinks twice accompanied with two sound signals, and after that the enrollment procedure starts automatically. If the automatic enrollment is failed, press the ENROLL button to initiate the process again.
  If the PAX KBD has been already used - reset procedure has been done: Press the ENROLL button on the back side – the operation red LED will blink fast for a while and after that the enrollment procedure starts automatically.
- The keyboard will confirm the successful enrollment with three short beeps and blinking of the icon for disarming in green.
- After exit from Device Programming menu, the keyboard is ready to use.

Resetting of PAX KBD

The resetting of a device is restoring of its default factory settings.
To reset the PAX KBD: With batteries on, press the "RESET" button on rear cover for at least 7 seconds until you see 3 green blinks from the icon for disarming. The system status indicators are blinking one-by-one in series – the keyboard in not enrolled to the system.

Access Codes for Programming and Management

Type	Code	Functions
Engineer	7777 (default)	- Direct entry into "Device enrollment" mode. - Changing own code. - Keyboard settings.
Manager	0000 (default)	- Arming/Disarming the system. - Setting, changing and deleting user access codes. - Changing own code. - Keyboard settings. - Clearing the memory event indication.
User (1-6)	-	- Arming/Disarming the system. - Changing own code. - Keyboard settings. - Clearing the memory event indication.

LED Indication for System Status

Icon	Description	Color	State	Description
	Arming button	Red	Lights on	System is Armed
			Blinking	- Enrolling to panel - Entry in programming mode
	Disarming button	Green	Lights on	System is Disarmed
			Blinking	- Confirmation for enrollment - Entry at address in programming mode
	Warning indicator for troubles and memory events*	Yellow	Lights on	System is disarmed, trouble event presence
			Blinking	Selected device (from the panel)
		Red	Lights on	System is armed/disarmed, memory event presence
			Blinking	Disabled value in programming mode; set user code at address

Note: *In case of presence of a technical trouble and a memory event at the same time, the indication for memory event is with higher priority.*

Sound Signalization of PAX KBD

Sound	Description
Button	Single short beep indicating the pressing of a key.
Confirmation	Three sound signals, indicating the system confirmation for executed operation; entry/exit the programming menus.
Cancellation	A single long beep, incorrect operation or rejection.
Entry time	Continuous beep, indicating intrusion into an entrance zone when the system is armed.
Exit time	Short beeps, indicating the system is armed and the user is required to leave the entrance zone. Ten seconds before the exit time is over beep frequency increases.
Technical trouble	Two short beeps at every 20 sec, indicating a technical trouble. You can disable the Trouble Signalization of the keyboard at address 20.
Memory event	“Alarm” melody in case of memory event presence, after disarming the system.
Arming	Two short sound signals indicating system ARMING followed by the signalization for exit time.
Disarming	Three short sound signals indicating system DISARMING.

User Operation

Arming

Via PAX KBD the user can perform Full or Partial Arming of the protected site.
Full Arm mode means that all zones in the armed group(s) are being protected.
Partial Arm mode (Stay or Sleep) means that the user can remain in certain, already bypasses zones of the protected group(s).
The procedure of arming depends on the type of the control panel.

BRAVO Next - Operation with 1 group only. The Partial Arm (Stay Arm) mode must be set for every of the enrolled PIR and MC detectors (via ProsTE software) - select the “Disabled in Stay Arm” option. By default, all detectors are set to be active after preforming Stay Arm. To perform Full or Stay arming at the site, enter in sequence:

Full arm: **Code - 🔒 - 1 -** Exit time starts running

Stay arm: **Code - 🔒 - 2 -** Exit time starts running

PAX WL Expander (Eclipse panel) - Group operation is according the type of the panel:

Eclipse 8+/16 - up to 3; Eclipse 32 - up to 8; Eclipse 99 - up to 16

(For operation with Eclipse 8+/16/32, enter one digit for group number - X: 1-8.
For operation with Eclipse 99, enter two digits for group number - XX: 01-16.)

The Partial Arm (Stay or Sleep Arm) mode is set in the programming menu of PAX WL Expander module - “Enable Partial ARM” option must be enabled.
The PAX KBD will be assigned to all group numbers to which, the PAX WL is assigned.

***• In case the Partial Arming is disabled, the user can do only Full arm**, as the performing sequence depends on the number of assigned for operation groups.*

► To perform Full arming with only 1 assigned group to PAX WL, enter in sequence:

Code - 🔒 - Exit time starts running

► To perform Full arming with 2 or more assigned groups to PAX WL, enter in sequence *(for Eclipse 8+/16/32, use one digit - X; for Eclipse 99, use two digits - XX*):

Code - 🔒 - X or XX - Exit time starts running

► To perform Full arming of all groups assigned to the user code, enter in sequence:

Code - 🔒 - 0 or 00 - Exit time starts running

***• In case the Partial Arming is enabled, the user can do Full, Stay and Sleep arm**, as the performing sequence depends on the number of assigned for operation groups.*

► To perform arming with only 1 assigned group to PAX WL, enter in sequence:

Full arm: **Code - 🔒 - # - 1 -** Exit time starts running

Stay arm: **Code - 🔒 - # - 2 -** Exit time starts running

Sleep arm: **Code - 🔒 - # - 3 -** Instant arm, no exit time

► To perform arming with 2 or more assigned groups to PAX WL, enter in sequence *(for Eclipse 8+/16/32, use one digit - X; for Eclipse 99, use two digits - XX*):

Full arm: **Code - 🔒 - X or XX - # - 1 -** Exit time starts running

Stay arm: **Code - 🔒 - X or XX - # - 2 -** Exit time starts running

Sleep arm: **Code - 🔒 - X or XX - # - 3 -** Instant arm, no exit time

► To perform arming of all groups assigned to the user code, enter in sequence:

Full arm: **Code - 🔒 - 0 or 00 - # - 1 -** Exit time starts running

Stay arm: **Code - 🔒 - 0 or 00 - # - 2 -** Exit time starts running

Sleep arm: **Code - 🔒 - 0 or 00 - # - 3 -** Instant arm, no exit time

Disarming

BRAVO Next - Operation with 1 group only. The disarming is performed only with entering of valid Manager or User code.

PAX WL Expander (to Eclipse panel) - Operation with up to 3/8/16 groups, according the type of Eclipse panel. The disarming is performed in sequence that depends on the number of assigned for operation groups.

► To perform disarming with only 1 assigned group to PAX WL, just enter a valid user or manager code.

► To perform disarming with 2 or more assigned groups to PAX WL, enter in sequence: *(for Eclipse 8+/16/32, use one digit - X; for Eclipse 99, use two digits - XX*):

Code - 🔓 - X or XX

► To perform disarming of all groups assigned to the user code, enter in sequence:

Code - 🔓 - 0 or 00

Blocking the keyboard

In case of entering of three wrong (not valid) user codes in sequence, confirmed with #, the keyboard will be blocked for operation for 90 seconds.

Sending of a panic alarm

In case of emergency situation, the User can activate a panic alarm, pressing and holding for 3-5 sec the buttons combination (*the panics type - silent or audible - are set via ProsTE software*):

1+3 – Police panic*; 4+6 – Medical panic*; 7+9 – Fire alarm panic**

** Silent by default; ** Audible by default.*

The keyboard will confirm with three short sound signals.

Clear the indication for event memory

The presence of a memory for an alarm event is indicated with lighting on red icon ⚠. The indication will stay active until the next arming, but can be cleared manually after entry in memory events review menu of the used control panel.

User Programming

Attention: The programming is accessible when the system is disarmed!

Address	Description	Default	Rights
000	Changing own code.	-	Engineer, Manager, Users
001	Set, change, delete User code 1.	-	Manager
002	Set, change, delete User code 2.	-	
003	Set, change, delete User code 3.	-	
004	Set, change, delete User code 4.	-	
005	Set, change, delete User code 5.	-	
006	Set, change, delete User code 6.	-	
20	Enable/Disable Trouble Sounds signalization of the keyboard.	Enabled	Engineer, Manager, Users
21	Keyboard buzzer sound volume (1-9). Set “0” to disable the sound volume.	5	
22	Keyboard backlight intensity (1-9). Set “0” to disable the backlight activation.	5	

For exit from a menu, press “X” button.

How to change own code

This setting is accessible for all type access codes: Engineer, Manager, User. *To change your own code, enter in sequence:*

Code - # - 000 - 🔒+🔓+⚠ are blinking – enter new code – #

How to set a new User code

This setting is accessible with Manager access code only. The presence of a set code for a User is indicated with a blinking ⚠ icon – see “How to change a user code”.
To set a new code for User 1 (in the example), enter in sequence:

Manager code - # - 001 - 🔒+🔓 are blinking - enter code – #

How to change a user code

This setting is accessible with Manager access code only.
To change the code for User 1 (in the example), enter in sequence:

Manager code - # - 001 - 🔒+🔓 +⚠ are blinking – enter new code – #

How to delete a user code

This setting is accessible with Manager access code only.
To delete the code for User 1 (in the example), enter in sequence:

Manager code - # - 001 - 🔒+🔓 +⚠ are blinking – press and hold “0” button to delete the code - 3 short beeps will confirm the operation

At next entry at address 001, only icons 🔒+🔓 are blinking, which means no code combination for User 1 is set.

How to disable Trouble Sounds signalization of PAX KBD

This setting is accessible for all type access codes: Engineer, Manager, User.
The Trouble sounds signalization from PAX KBD keyboard is Enabled by default. The option is disabled when is indicated with a blinking ⚠ icon at address 20. *To disable the Trouble sound signalization, enter in sequence:*

Code - # - 20 - 🔒+🔓 are blinking - press any key - 🔒+🔓+⚠ are blinking - #

How to change the buzzer sound level of PAX KBD

This setting is accessible for all type access codes: Engineer, Manager, User.
The buzzer sound level can be set in range from 1 (lowest) to 9 (the highest). The buzzer sound can be entirely muted with setting 0 (no sound).
To change the buzzer sound level, enter in sequence:

Code - # - 21 - 🔒+🔓 are blinking – set sound level 1-9 - #

How to change the intensity backlight of buttons of PAX KBD

This setting is accessible for all type access codes: Engineer, Manager, User.
The backlight intensity of the digit buttons can be set in range from 1 (lowest) to 9 (the highest). The backlight can be entirely turned off with setting 0.
To change the intensity of the backlight of the buttons, enter in sequence:

Code - # - 22 - 🔒+🔓 are blinking - set intensity 1-9 - #

Direct entry into “Device enrollment” mode with PAX KBD

For direct entry into the “Device enrollment” mode of BRAVO panel, enter in sequence:

Engineer code - # - the panel is in “Device enrollment” mode

Changing Batteries

It is recommended first to bypass the keyboard from the panel. Then remove the cover of the battery compartment and change the batteries with new ones. After that debypass the keyboard from the panel.
***SAFETY PRECAUTIONS:** Keep new and used batteries away from children! If the battery compartment does not close securely, stop using the product and keep it away from children’s reach. If swallowed, the coin-sized and other type batteries can cause serious injuries and burns in just 2 hours. In case of any doubt for swallowing of a battery, seek for medical help immediately!*

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