

MODEL KP-200
FLUSH MOUNT
VANDAL RESISTANT
WEATHERPROOF DIGITAL KEYPAD



Model KP-200 is a self-contained vandal resistant digital keypad. This dual-relay output keypad is suitable for residential, industrial, and commercial installations. It is compatible with all electric locking devices. Durable backlit metal keys and a rugged metal housing protect the keypad from harsh environments.

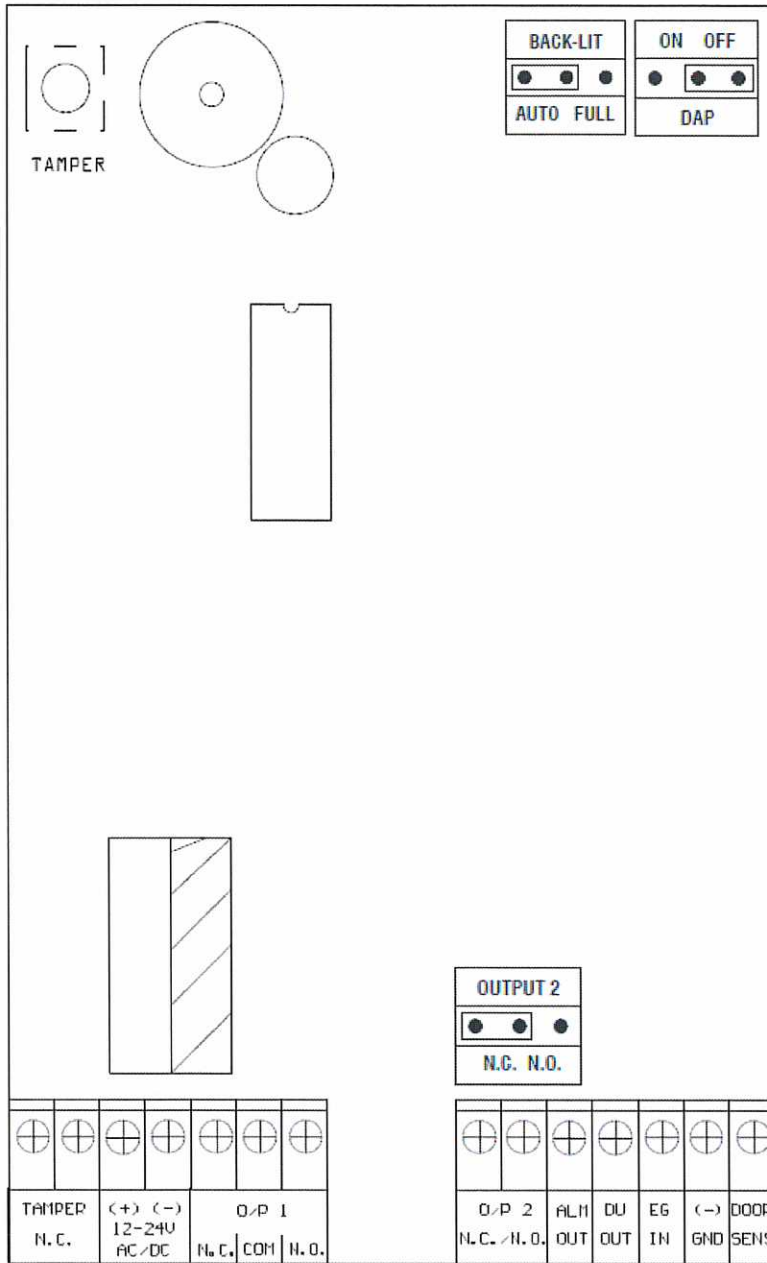


ASSA ABLOY

Alarm Controls
10027 S. 51st Street
Suite 102
Phoenix, AZ 85044
(800) 645-5538

ASSA ABLOY, the global leader
in door opening solutions

INSTALLATION



1. Remove tamper proof screws from the front of the keypad with the provided tool.
2. Make all required wiring connections to the terminal blocks.
3. Place the keypad faceplate on the back box and secure with the tamper proof screws.

WIRING

Power Input (12-24V AC/DC)	12 or 24 AC or DC. AC power can be connected without observing polarity requirement. Connect DC power with polarity as indicated.
Output 1	SPDT dry 1 Amp contact. Output can be programmed for latching or momentary operation.
Output 2	Form C relay with 1 Amp rating. Jumper selectable N.C. (Normally Closed) or N.O. (Normally Open) contacts.
Egress Input (EG IN)	A normally-open request to exit station can be connected to this terminal and ground (-). Connecting the terminal to ground will operate output 1 in the same manner as a valid user code.
Duress Output (DU OUT)	NPN transistor open collector output that switches to ground (-) after the duress code has been entered. Output rating I _c max: 100mA sink, V _c max: 24VDC.
Ground (-) (GND)	System ground (-).
Door Position Sensor Input (DOOR SENS)	A normally-closed contact connected to this terminal and ground (-) will provide a door position monitor. This terminal must be connected to ground (-) if not used. The factory installed jumper must be removed if using this input.
Alarm Output (ALM OUT)	NPN transistor open collector output that switches to ground (-) when door position sensor shows an open door, but a valid code was not entered. Used to trigger an external alarm or notify an access control system.
Normally-closed Tamper (Tamper N/C)	Normally-closed output pair activated by the tamper switch if the keypad faceplate is removed from the back box.

KEYPAD INITIATION

Keypad initiation must be done at the initial turn-on of the keypad.

1. Connect power to the keypad.
2. Put the keypad in *Program Mode* by entering "0 0 0 0 *". The keypad will beep twice and the yellow LED will be on and not blinking. Proceed to Entering a new installer code.
3. The keypad will beep twice and the keypad initiation is complete.
4. Enter "*" to exit Program Mode. The yellow LED will begin blinking.

ENTERING A NEW INSTALLER CODE

It is strongly recommended that the *Installer Code* be changed from the default "0 0 0 0". If the *Installer Code* is not known, please refer to the section on *Direct Access to Programming*.

1. Put the keypad in *Program Mode* by entering "0 0 0 0 *" or the current installer code. The keypad will beep twice and the yellow LED will be on and not blinking.
2. Enter "0 (4 to 8 digit new installer code) #". For example, to change the *Installer Code* to 1 2 3 4 you would enter "0 1 2 3 4 #".
3. The keypad will beep twice indicating that the new *Installer Code* has been accepted.
4. Enter "*" to exit Program Mode. The yellow LED will begin blinking.

PROGRAMMING MODE

It is necessary to put the keypad in *Programming Mode* in order to access all keypad configuration settings.

1. Put the keypad in *Program Mode* by entering the *Installer Code* followed by the "*". The keypad will beep twice and the yellow LED will be on and not blinking.
2. Enter "*" to exit Program Mode. The yellow LED will begin blinking.

PROGRAMMING USER CODES

User Codes are 4 to 8 digits long and must not be the same as the *Installer Code*. A *User Code* can be assigned to operate either Output 1 or Output 2. The keypad can store up to 100 *User Codes* for Output 1 and up to 10 *User Codes* for Output 2.

Each *User Code* has a *Code Number*. Output 1 *Code Numbers* are two digits ranging from "00" to "99". Output 2 *Code Numbers* are one digit ranging from "0" to "9".

1. Put the keypad in *Program Mode* by entering the *Installer Code* followed by the "*". The keypad will beep twice and the yellow LED will be on and not blinking.
2. Enter "(Output) (Code Number) (User Code) #".
For example, if you wish to assign a *User Code* of "6 7 8 9" to *Code Number* "00" to operate Output 1 you would enter "1 0 0 6 7 8 9 #".
If you wish to assign a *User Code* of "3 4 3 3" to *Code Number* "1" to operate Output 2 you would enter "2 1 3 4 3 3 #".
3. Enter "*" to exit Program Mode. The yellow LED will begin blinking.

OPERATION

Enter a valid *User Code* to activate the associated Output. The keypad must be in standby mode (yellow LED blinking).

1. Enter "**(User Code) #**".

For example, if the *User Code* is "1234" you would enter "**1 2 3 4 #**".

DELETING USER CODES

1. Put the keypad in *Program Mode* by entering the *Installer Code* followed by the "*****". The keypad will beep twice and the yellow LED will be on and not blinking.

2. Enter "**(Output) (Code Number) #**".

For example, if you wish to delete the *User Code* in *Code Number* "02" for Output 1 you would enter "**1 0 2 #**".

If you wish to delete the *User Code* in *Code Number* "3" for Output 2 you would enter "**2 3 #**".

To delete all *User Codes* enter "**8 9 0 1 #**".

3. Enter "*****" to exit Program Mode. The yellow LED will begin blinking.

FALSE CODE LOCKOUT

The keypad can be programmed to be disabled for 15 minutes after 5 successive false code entries.

1. Put the keypad in *Program Mode* by entering the *Installer Code* followed by the "*****". The keypad will beep twice and the yellow LED will be on and not blinking.
2. Enter "**7 0 0 #**".
3. Enter "*****" to exit Program Mode. The yellow LED will begin blinking.

To disable the *False Code Lockout* feature -

1. Put the keypad in *Program Mode* by entering the *Installer Code* followed by the "*****". The keypad will beep twice and the yellow LED will be on and not blinking.
2. Enter "**7 0 0 0 #**".
3. Enter "*****" to exit Program Mode. The yellow LED will begin blinking.

DOOR FORCED OPEN ALARM

The keypad will generate an alarm instantly if the door is opened without a valid *User Code* or *Egress Input*. The keypad will beep for 60 seconds. A Normally Closed (N.C.) door position switch is monitored via the *Door Position Sensor Input*. The alarm will be turned off immediately with any valid Output 1 *User Code* entry.

1. Put the keypad in *Program Mode* by entering the *Installer Code* followed by the "*****". The keypad will beep twice and the yellow LED will be on and not blinking.
2. Enter "**8 0 1 #**".
3. Enter "*****" to exit Program Mode. The yellow LED will begin blinking.

DOOR FORCED OPEN ALARM (CONTINUED)

To disable the *Door Forced Open Alarm* feature -

1. Put the keypad in *Program Mode* by entering the *Installer Code* followed by the "*". The keypad will beep twice and the yellow LED will be on and not blinking.
2. Enter "8 0 0 #".
3. Enter "*" to exit Program Mode. The yellow LED will begin blinking.

DOOR PROPPED OPEN ALARM

If the door is left open for longer than a preset time, the keypad will generate an alarm until the door is closed. The door open time can be programmed from 1 to 999 seconds. A Normally Closed (N.C.) door position switch is monitored via the *Door Position Sensor Input*.

1. Put the keypad in *Program Mode* by entering the *Installer Code* followed by the "*". The keypad will beep twice and the yellow LED will be on and not blinking.
2. Enter "9 (door open time 1-999) #".
3. Enter "*" to exit Program Mode. The yellow LED will begin blinking.

To disable the *Door Propped Open Alarm* feature -

1. Put the keypad in *Program Mode* by entering the *Installer Code* followed by the "*". The keypad will beep twice and the yellow LED will be on and not blinking.
2. Enter "9 0 #".
3. Enter "*" to exit Program Mode. The yellow LED will begin blinking.

MOMENTARY OR LATCHING OUTPUT MODES

Outputs 1 and 2 can be programmed for either momentary or latching operation. Momentary operation time can be set for between 1 and 999 seconds. The factory default momentary operation time is 2 seconds.

1. Put the keypad in *Program Mode* by entering the *Installer Code* followed by the "*". The keypad will beep twice and the yellow LED will be on and not blinking.
2. Output 1 *Momentary Mode* -
Enter "4 0 (output active time 1-999) #"
Output 2 *Momentary Mode* -
Enter "5 0 (output active time 1-999) #"
Output 1 *Latching Mode* -
Enter "4 1 #"
Output 2 *Latching Mode* -
Enter "5 1 #"
3. Enter "*" to exit Program Mode. The yellow LED will begin blinking.

KEYPAD SILENT MODE

The keypad beeper can be silenced.

1. Put the keypad in *Program Mode* by entering the *Installer Code* followed by the “*”. The keypad will beep twice and the yellow LED will be on and not blinking.
2. Enter “8 3 0 #”.
3. Enter “*” to exit Program Mode. The yellow LED will begin blinking.

To return the keypad to audible mode -

1. Put the keypad in *Program Mode* by entering the *Installer Code* followed by the “*”. The keypad will beep twice and the yellow LED will be on and not blinking.
2. Enter “8 3 1 #”.
3. Enter “*” to exit Program Mode. The yellow LED will begin blinking.

AUTO OR MANUAL CODE ENTRY MODE

When the keypad is programmed for *Auto Entry Mode* it is not necessary to terminate *User Codes* with the “#” during operation. However, in *Auto Entry Mode* the *User Code* must be the same length (4 to 8 digits) as the *Installer Code*.

To put the keypad in *Auto Entry Mode* -

1. Put the keypad in *Program Mode* by entering the *Installer Code* followed by the “*”. The keypad will beep twice and the yellow LED will be on and not blinking.
2. Enter “8 2 1 #”.
3. Enter “*” to exit Program Mode. The yellow LED will begin blinking.

To return the keypad to *Manual Entry Mode* -

1. Put the keypad in *Program Mode* by entering the *Installer Code* followed by the “*”. The keypad will beep twice and the yellow LED will be on and not blinking.
2. Enter “8 2 0 #”.

DURESS CODE

There may be up to ten (10) user programmable Duress Codes. Their User ID's are single digit (between 0 & 9). A Duress Code will operate Relay 1 just like a User Code, but it will also activate the Duress Output. The Duress Output can be wired for remote monitoring of the event if desired. To reset the Duress Output you can enter any valid User Code.

1. To program a Duress Code put the keypad into the Program Mode by entering the Installer Code followed by the “*”. The keypad will beep twice and the yellow LED will stop flashing and go solid.
2. Enter(46) (User ID) (Duress Code) #. For example, if you wish to enter Duress Code 1818 into the first User ID slot (0), you will enter **4601818#**.
3. Enter “*” to exit Program Mode. The yellow LED will begin blinking.

DIRECT ACCESS TO PROGRAMMING (DAP)

If the *Installer Code* is forgotten, the *Direct Access to Programming (DAP)* utility can be used to put the keypad in *Programming Mode*.

1. Disconnect the power supply from the keypad.
2. Move the DAP jumper from the OFF to the ON position.
3. Reconnect the power supply to the keypad (keypad will start beeping).
4. Move the DAP jumper from the ON to the OFF position (keypad will stop beeping and the yellow LED will be on and not blinking. The keypad is now in *Programming Mode*).
5. A new *Installer Code* must now be entered.
6. Enter "**0 (4 to 8 digit new installer code) #**". For example, if you wish to change the *Installer Code* to 1 2 3 4 you would enter "**0 1 2 3 4 #**".
7. The keypad will beep twice indicating that the new *Installer Code* has been accepted.
8. Enter "*****" to exit *Program Mode*. The yellow LED will begin blinking.

LED AND TONE INDICATORS

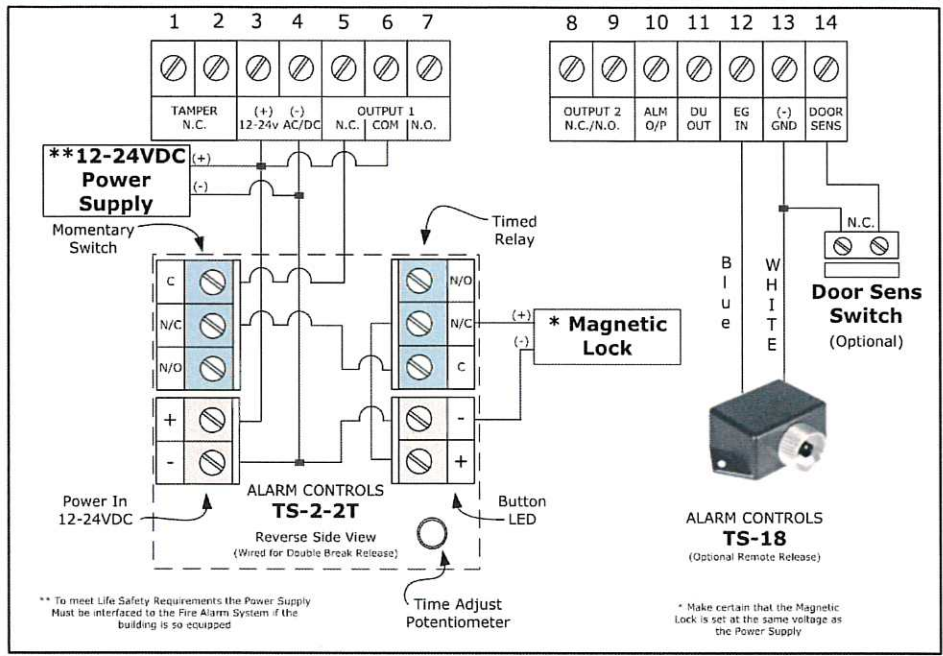
The Green LED is on while Output 1 is activated.

The Red LED is on while Output 2 is activated.

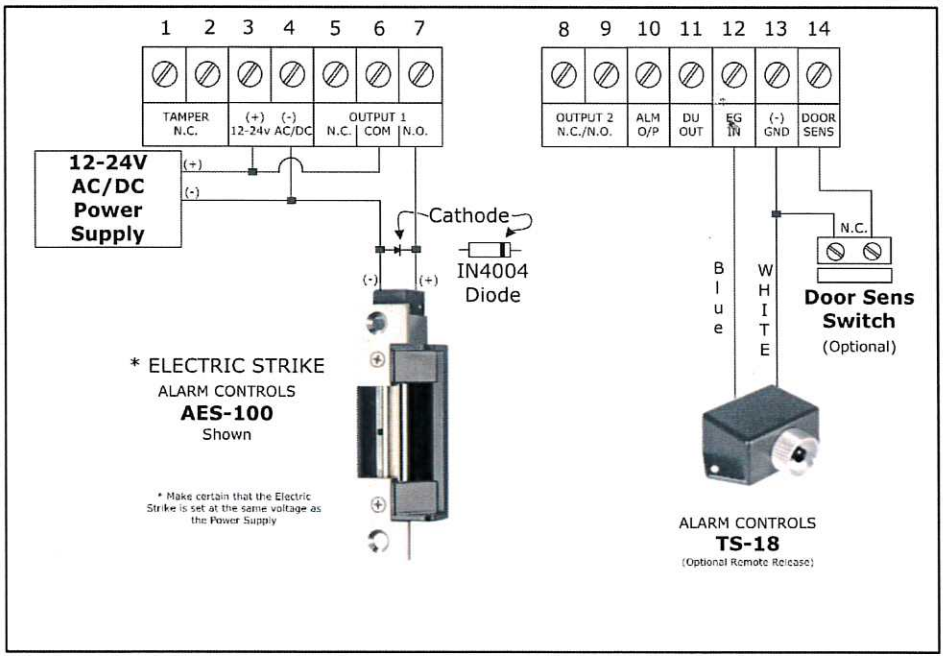
The Yellow LED is described in the table below -

Yellow LED	Keypad Status	Tone Indicator
On	Programming Mode	None
1 Blink	Successful Key Press	1 Beep
2 Blinks	Successful Code Entry	2 Beeps
5 Blinks	Error in Code Entry	5 Beeps
Continuous Blinking	Standby Mode	None
Continuous Blinking	DAP Jumper not replaced	Continuous Tone

BASIC WIRING DIAGRAM FOR A MAGNETIC LOCK



BASIC WIRING DIAGRAM FOR AN ELECTRIC STRIKE

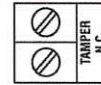


ADDITIONAL WIRING DIAGRAMS

Call tech support 800.624.5625—Follow “2” prompt to Technical Support.

TAMPER SWITCH

The Tamper Switch is Normally-closed when the keypad face plate is securely attached to the back box. Connect these terminals to an alarm panel if desired.



BACKLIGHT ADJUSTMENT

BACK LIGHTING (BACK-LIT JUMPER SELECTION)

1. FULL BACKLIT — The keypad gives dim backlit in standby. It turns to full backlit when a key button is pressed, then back to dim backlit 10 seconds after the last key button is pressed.
2. AUTO BACKLIT — The Keypad gives no backlit in standby. It turns to full backlit automatically when a key button is pressed, then back to OFF 10 seconds after the last key button is pressed.

