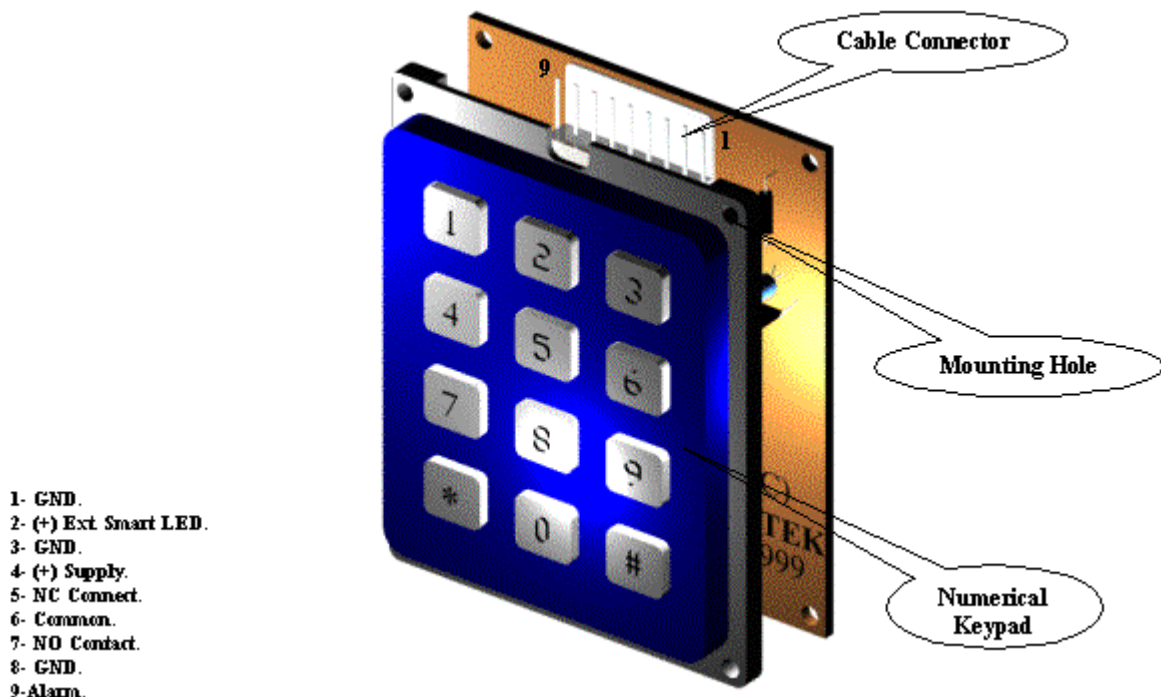


Password Keypad (PK-4)

Programmable Password Keypad Kit

Features:

- User-programmable password.
- Scrambled-code entry.
- Password protection against power failure.
- Programmable code size (1 - 8 digits).
- Two-level security protection.
- Two modes of operation (*RUN* mode and *PROGRAM* mode).
- Smart LED indication for the user.
- Output signals for Alarm and Lock.



Password Keypad (PK-4) Layout.

Technical Specifications:

- Supply Voltage: DC 9V ~ 15V.
- Supply Current: ≈ 10 mA @ standby situation.
 ≈ 40 mA @ lock-active situation.
- Alarm Output: Open-collector with active-high up to 30V, 100 mA.
- Codepad Type: 12-key telephone keypad with smart LED.
- Lock Switch: Free contact up to 1A max. (NO and NC).

Installing and Operating the Unit

Install the unit as shown in Fig(1). When the unit is switched ON, self-diagnostic routines are executed to check hardware components. If everything is OK, the smart LED is activated for a period of two seconds. But if there is a hardware malfunction, so please contact your MANTECH technical division to fix this problem. When the self-diagnostic is passed correctly, you can access any mode of operation corresponding to its command key.

How to Disarm your System (RUN mode)

- Press (#) key. The smart LED is activated once which means that you enter *RUN* mode.
- Enter your PIC (Personal Identification Code) using the numerical keypad. This code is scrambled, which means that you can enter any number of digits but your password is included somewhere within these digits. For example, suppose your password is **35412**. When you enter 5724**35412**5881, your password is implicitly included within these digits. In case of any mistake, please press (*) key to delete what you are entered just before, and then re-enter the password.
- After you enter the scramble code, press (#) key. If the password entered is the correct one, the system is disarmed, and the smart LED is activated.
- To arm the system again, press (*) key. This will reset the unit.
- If you enter the wrong password, the system remains armed, the smart LED flashes, and the alarm output signal is activated to operate the alarm circuit.

How to Change your Password Code (PROGRAM mode)

- Press (*) key. The smart LED is activated twice which means that you enter the *PROGRAM* mode.
- The *PROGRAM* mode is protected against unauthorized access by writing your last password (previously stored in the unit). This password is scrambled also.
- Enter your last password and then press (#). In case of any mistake, press (*) key to delete what you are entered.
- PIC code size should not exceed more than 8 digits. When exceeded, an error condition is indicated by the smart LED and the unit should be reset by pressing (*) key.
- If your last password is correct, the smart LED is activated three times to indicate that you can enter the new password now. When you enter the new password, press (#) key to save it. Password digits more than 8 should be avoided.
- If your last password is not correct, the system remains armed, the smart LED flashes, and the alarm output signal is activated. Therefore if you forget your last password, please contact your MANTECH technical division to fix this problem.

Notes:

- The unit should be supplied with power from the system at which it is connected.
- The unit is checked with a programmed password code before marketing.
- The (#) button is used as “RUN mode” key, “enter” key, and “save code” key.
- The (*) button is used as: “PROGRAM mode” key, “delete” key, and “reset” key.