

Installation Instructions for the DS7443 and DS7444 Control Stations (Keypads)

1.0 General Information

The DS7443 and the DS7444 are 4-wire LED Control Stations (keypads) intended for use with the DS7400Xi, DS7080i, and DS7060 Control/Communicators (panels). The DS7443 has 6 zone LEDs and the DS7444 has 8 zone LEDs; otherwise the two control stations are identical.

Mounting variations of the keypads include: wall surface mounting, mounting to standard single gang switch or outlet boxes, and/or direct mounting to the front of the control panel's enclosure.

The recommended wiring to the control panel is standard #22 AWG (0.8 mm), non-shielded "telephone" quad (4-wire) cable. The following is a chart of general wiring guidelines:

	DS7400Xi	DS7080i	DS7060
Wire Gage	22 AWG (0.8 mm)	22 AWG (0.8 mm)	22 AWG (0.8 mm)
Wire Type	no shield, 4-wire	no shield, 4-wire	no shield, 4-wire
Max. number of Keypads allowed per System	6	4	4
Max. distance allowed between the Control and each Keypad	1,000 feet (300 m)	1,000 feet (300 m)	1,000 feet (300 m)
Max. distance of Keypad Wiring per System	6,000 feet (1800 m)	6,000 feet (1800 m)	1,000 feet (300 m)

2.0 Location

Ideally, one keypad should be located close to the primary entry/exit door of the premises, and within 1,000 feet (300 m) of the control panel. Because control panels will support more than one keypad, the installation of additional keypads is available at secondary entry/exit zones or other strategic locations throughout the premises.

Note: The keypads are not intended for outdoor installations.

3.0 Mounting

- The keypad should be mounted so that the bottom of the keypad is no higher than shoulder height of the shortest person using the system.
- With the keypad's door open, remove the chassis from the base by inserting a small flathead screwdriver in the two slots in the bottom of the chassis and, pressing up, pulling the chassis straight away from the base.

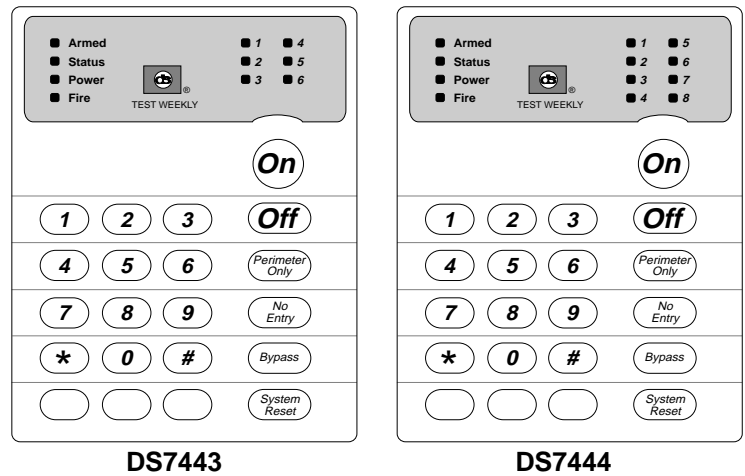


Figure A - Front view of keypads

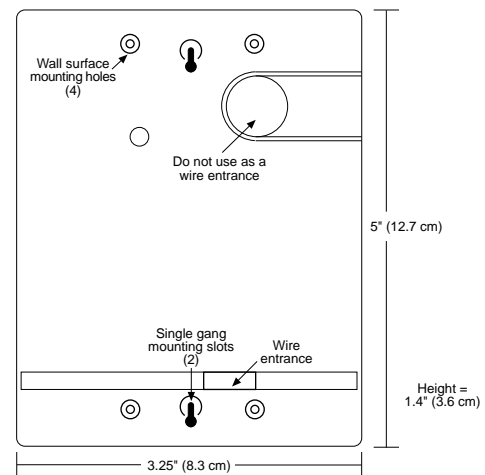


Figure B - Rear view of keypad base

- **Wall Surface Mount:** Using the base as a template, mark the location for the 4 mounting holes and the wire/cable entrance on the mounting surface.
 - Provide an appropriate opening in the mounting surface for the wiring.
 - Pre-start the mounting screws.
 - Do not secure the base at this time.
- **Switch or Outlet Box Mount:** Use either set of mounting holes for mounting to a single gang box.
 - Do not secure the base at this time.

4.0 Wiring

- **Be sure all wiring is unpowered (de-energized) before routing.** Keypad wiring can not be shared with multiplex, options bus, telephone, or siren wiring.
- Route wiring as necessary from the control panel to the area of the DS7443/DS7444 installation.

Note: No more than 1 keypad may be placed along any single run of 1,000 feet (300 m) of #22 AWG (0.8 mm) cable.

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- Bring the cable through the wire/cable entrance in the keypad base.
- Secure the base to the mounting surface or box.
- Make all necessary connections from the field wiring to the keypad wires.

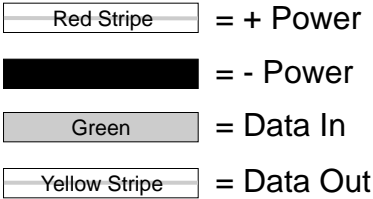


Figure C - Wiring

5.0 Sounder Silence

- To set the control station's sounder for silent operation, place the shorting jumper over the sounder silence pin shown in Figure D.

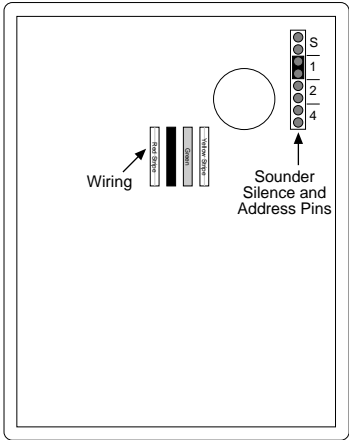
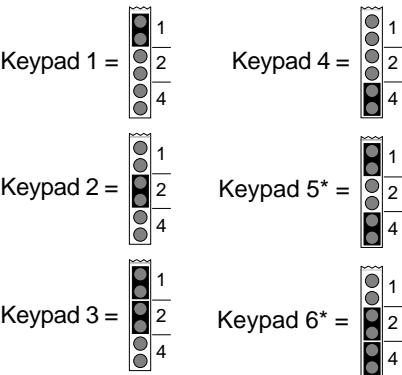


Figure D - Rear view of circuit board

6.0 Control Station Address

Note: Each keypad must have its address set via the address pins. Each keypad must also be programmed at the control panel.

- Select the keypad address (1 - 6) by placing the shorting jumpers over the address pins as shown in Figure E. For the location of the address pins on the back of the circuit board, see Figure D.



* = Keypads 5 and 6 are not valid for use with the DS7080i and DS7060

Figure E - Assigning keypad addresses

- Each keypad must have a different address. **One keypad must be assigned as Keypad 1.**
- Place the keypad chassis onto the base and, while feeding the excess cable out the rear of the base, press the chassis straight in until it latches on.

7.0 Emergency Key Labeling

Note: Do NOT label the emergency keys if they are not programmed.

If labeling, the unmarked key in the lower left corner of the keypad **MUST** be labeled as the FIRE key because of its programming values pre-set in the control panel. The unmarked center key should be labeled as the Special Emergency key. The unmarked right key should be labeled as the Panic key.



Figure F - Emergency Key Labels

8.0 Keypad Faults

In case of trouble, the DS7443/DS7444 keypad will display the following characteristics:

Observation	Possible Causes
3 beep error tone at keypad	<ul style="list-style-type: none"> • The keypad's address has not been set with its address pins. • The keypad has not been programmed properly at the control panel. • The yellow wire has been disconnected.
Keypads locked out (no tones)	<ul style="list-style-type: none"> • Two or more keypads have been set to the same address.
No keypad LEDs light up	<ul style="list-style-type: none"> • The red/black power wires are disconnected or broken.