

Installation Instructions for the DS7443S Control Station (Keypad)

1.0 General Information

The DS7443S Control Station is a 4-wire LED keypad intended for use with the DS7400Xi, DS7080i, and DS7060 Control/Communicators (panels). The DS7443S keypad has 6 zone LEDs. If more than 6 zones are required, use the DS7445 LED or the DS7447 LCD (Alpha) Keypads.

2.0 Specifications

- **Dimensions (HxWxD):** 5.0 in. x 3.25 in. x 0.25 in. (12.7 cm x 8.3 cm x 3.6 cm)
- **Current Requirements:** 45 mA Standby and Alarm
- **Mounting Variations:** 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.

3.0 Mounting

3.1 Mounting Considerations



Ideally, one keypad should be located close to the primary entry/exit door of the premises, and within the recommended distance to 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.



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.

NOTE: The keypads are not intended for outdoor installations.

3.2 Wall Surface Mounting

- 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.
- Using the base as a template, mark the location for the four mounting holes (see Figure A) and the wire/cable entrance on the mounting surface.

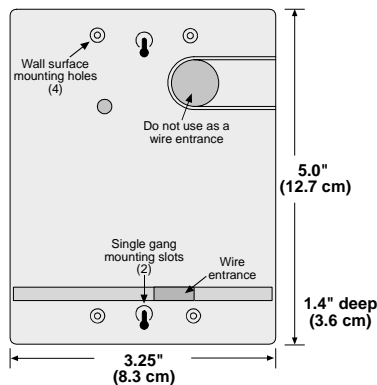


Figure A - Rear View of Keypad Base

- Provide an appropriate opening in the mounting surface for the wiring (see section 4.0).
- Pre-start the mounting screws.

NOTE: Do not secure the base at this time.

3.3 Switch or Outlet Box Mounting

- 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.
- Use either set of mounting holes (see Figure A) for mounting to a single gang box.

4.0 Wiring

NOTE: Be sure all wiring is unpowered (de-energized) before routing.



Keypad wiring can not be shared with multiplex, options bus, telephone, or siren wiring.

- The recommended wiring to the control panel is standard #22 AWG (0.8 mm), non-shielded "telephone" quad (4-wire) cable. Refer to the chart for specific wiring information for your control panel. **Only one keypad is allowed per wire run.**

| | DS7400Xi | DS7080i | DS7060 |
|--|--------------------|-------------------|--------------------|
| Wire Gage | 22 AWG (0.8 mm) | 22 AWG (0.8 mm) | 22 AWG (0.8 mm) |
| Wire | 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 | 400 feet (130 m) | 400 feet (130 m) | 1,000 feet (300 m) |
| Max. distance of Keypad Wiring per System | 2,400 feet (730 m) | 1600 feet (488 m) | 1,000 feet (300 m) |

- Route wiring as necessary from the control panel to the area of the DS7443 keypad installation.

Note: Only one keypad may be placed along any single run of 400 feet (120 m) of #22 AWG (0.8 mm) for the DS7080i or DS7400Xi Control Panels or 1,000 feet (300 m) of #22 AWG (0.8 mm) cable on the DS7060 Control Panel.

- 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 (see Figure B).

| | |
|-------------------------|------------|
| Red or Red Stripe | = + Power |
| Black | = - Power |
| Green | = Data In |
| Yellow Stripe or Yellow | = Data Out |

Figure B - Keypad Wiring



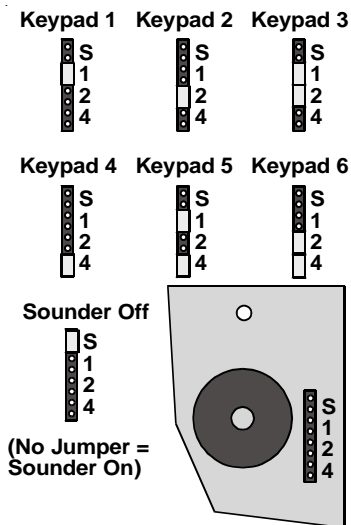
- Place the keypad chassis onto the base and, while feeding the excess cable out the rear of the base, press the chassis straight in until it latches on.

5.0 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.

Do not use the silent option on UL Listed Requirements.

- Select the keypad address (1 - 6) by placing the shorting jumpers over the address pins as shown in Figure C.



**DS7443S
Address Pins**

Figure C - Rear View of Circuit Board

- Each keypad must have a different address. **One keypad must be assigned as Keypad 1.**

6.0 Emergency Key Labeling



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. See Figure D below.



Figure D - Emergency Key Labels

7.0 Keypad Faults

In case of trouble, the DS7443 Series keypads 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. |