HOMEWORKS QS

Installation Instructions
Please Read Before Installing

Wired seeTouch® Designer Keypads
24 V=== 30 mA PELV (Class 2: USA)
Typical Power Consumption: 0.6 W

HQWD-W1B	HQWD-W6B	HQWD-W6BRL
HQWD-W2BS	HQWD-W7B	HQWD-W5BIR
HQWD-W3BS	HQWD-W3BSRL	HQWD-W1RLD
HQWD-W4BS	HQWD-W4S	HQWD-W2RLD
HQWD-W5B	HQWD-W5BRL	HQWD-W3BD

Use these instructions to install the model numbers listed above.

Important Notes

Codes: Install in accordance with all local and national electrical codes.

Environment: Ambient operating temperature: 32 °F to 104 °F (0 °C to 40 °C), 0 to 90% humidity, non-condensing. Indoor use only.

Wallplates: Use Lutron® Designer (Claro® or Satin Colors®) wallplates. Wallplates are sold separately. *Lutron Claro* and *Satin Colors* wallplates snap on with no visible means of attachment.

Cleaning: To clean, wipe with a clean damp cloth. DO NOT use any chemical cleaning solutions.

Wallboxes: U.S. wallbox, 3 ½ in (89 mm) deep, 2 ¼ in (57 mm) deep minimum, or low-voltage mounting bracket.

Keypad Wiring

• The total length of wire on a QS wired link is not to exceed 2000 ft (610 m).

• Up to 100 devices can be connected to the QS wired link. This can include seeTouch® keypads along with other devices as defined in the *HomeWorks* QS software.

• Wiring may be in a daisy-chain, star, or T-tap configuration.

• Control wire must be 1 pair 18 AWG (1.0 mm²) PELV (Class 2: USA) for power and 1 pair 22 to 18 AWG (0.5 to 1.0 mm²) PELV (Class 2: USA) twisted/ shielded for data (see **Wiring Diagram**).
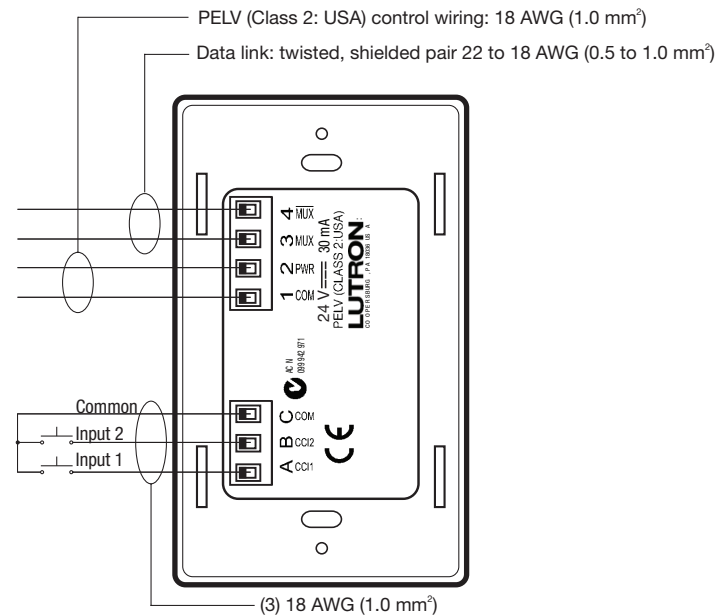
System Programming: Programming and activation (addressing) must be accomplished through the *HomeWorks* QS software.

Engraving: Refer to the *HomeWorks* QS software for engraving instructions.

*Typical Power Consumption test conditions: all backlights on medium intensity, two LEDs on (two presets active), keypad powered at 24 V==.

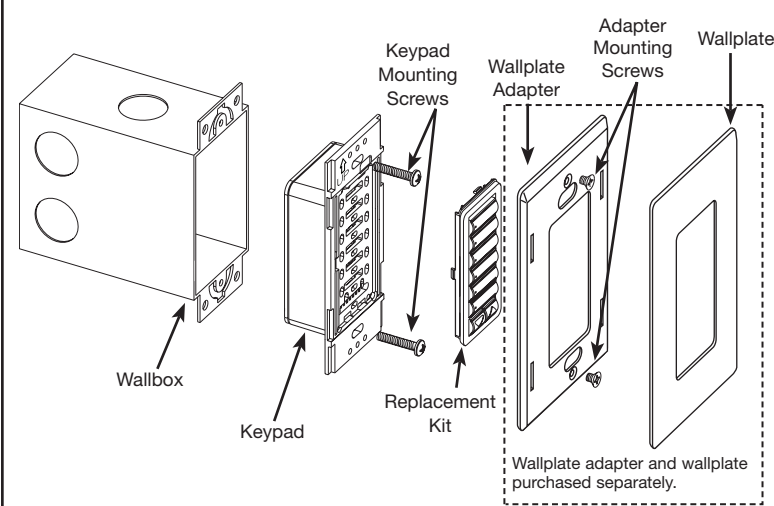**Technical Assistance:**
U.S.A./Canada: 1.800.523.9466
Mexico: +1.888.235.2910
Other Countries: +1.610.282.3800
24 hours a day, 7 days a week.

Installation

1. Disconnect power to the keypads by turning OFF all circuit breakers connected to the *HomeWorks* QS processor or QS link auxiliary power supplies.

2. Connect to QS wired link.

   a. Strip insulation 3/8 in (10 mm).

   b. Unplug keypad link terminal block from the back of the keypad.

   c. Connect wiring to terminal block as shown in the **Wiring Diagram**. Each terminal will accept one or two 18 AWG (1.0 mm²) wires.

   d. Plug the keypad link terminal block back onto the keypad. Be sure to orient the terminal block correctly.

3. Connect external input closures: Connect up to two low-voltage dry contact closures (see **Wiring Diagram**).

Wiring Diagram

PELV (Class 2: USA) control wiring: 18 AWG (1.0 mm²)

Data link: twisted, shielded pair 22 to 18 AWG (0.5 to 1.0 mm²)

Common
Input 2
Input 1

(3) 18 AWG (1.0 mm²)

Note: When using the input closures, verify compatibility of external contact closure input devices. The contact closure inputs can be used with either dry contact closures or ground-referenced solid-state outputs. The outputs must stay in the closed or open states for at least 40 ms in order to be recognized by the keypad. If there is any question as to whether the device is compatible with these specifications, contact the manufacturer.

4. Push all wires back into the wallbox and loosely fasten the control to the wallbox using the keypad mounting screws provided. Do not pinch the wires. See **Mounting Diagram**.

Mounting Diagram

5. Install Replacement Kit (if applicable).

6. Attach Lutron *Claro* or *Satin Colors* wallplate adapter and wallplate (see **Mounting Diagram**).

   a. Install the wallplate adapter onto the front of the keypad(s).

   b. Tighten keypad mounting screws until wallplate adapter is flush to wall (do not over-tighten).

   c. Snap wallplate onto wallplate adapter and verify that buttons are aligned properly.

   d. If control(s) are misaligned, loosen keypad mounting screws appropriately.

7. Restore power.

Troubleshooting Guide

Symptom	Possible Causes
No communication with *HomeWorks* QS processor	• Miswire or loose connection at the QS wired link. • Keypad has not been programmed or has been programmed incorrectly.
Keypad buttons do not work; LEDs do not track.	• Keypad is miswired. • Keypad is not powered. • Keypad has not been programmed or has been programmed incorrectly.
LEDs do not turn on.	• Miswire or loose connection at the keypad(s) or processor on the QS wired link. • Keypad has been programmed incorrectly.
Contact closure inputs do not produce the desired result in the system.	• Miswire or loose connection at the keypad CCI connector. • Keypad has not been programmed or has been programmed incorrectly.
Keypad buttons do not function as intended.	• Keypad has not been programmed or has been programmed incorrectly.
Keypad LEDs scroll quickly from bottom to top.	• A communication issue is preventing the keypad from receiving an ID from the system. • There are more than 100 devices on the link.

Returning Keypads to Factory Settings

Returning a keypad to its Factory Settings will remove the keypad from the system and erase all programming.

Step 1: Triple tap any button on the keypad (except raise/lower). DO NOT release after third tap.

Step 2: Keep the button pressed on the third tap until all the status LEDs start to flash slowly (approximately 3 seconds).

Step 3: Immediately release the button and triple tap the button again. The status LEDs on the keypad will flash quickly.

The keypad has now been returned to Factory Settings.

Warranty: For warranty information, please see the Warranty enclosed with the product, or visit www.lutron.com/resiinfo

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