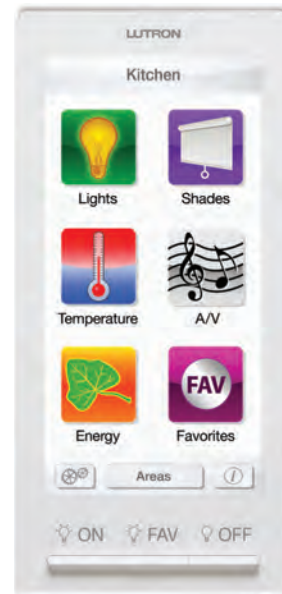


## HomeWorks® QS Dynamic Keypads

Dynamic Keypads provide the functionality of multiple Lutron® keypads in an easy-to-navigate, intuitive arrangement. Dynamic Keypads help reduce wall clutter by combining control of several functions into a convenient, single point of control for multiple systems including: lights, shades/draperies, and HVAC equipment.

Dynamic Keypads are easy to set up and are simple and intuitive to program and adjust to your specific needs. The display screen clearly displays the system and device status. The intuitive user interface combines the cognition of a seeTouch® keypad with the flexibility of an LCD screen touch interface.

Dynamic Keypads combine superior aesthetics with energy savings. On-screen button labeling for the Dynamic Keypad is done automatically while you program the system.



HQ-J-DK420-WH  
HQ-W-DK420-WH

### Model Number

HQ-J-DK420-XX\* Dynamic Keypad (434 MHz/wired)

HQ-W-DK420-XX\* Dynamic Keypad (wired only)

\* "XX" in the model number represents color/finish code.  
See **Colors and Finishes** below.

### Colors and Finishes

Dynamic Keypads are available in 2 colors.



White  
WH



Black  
BL

# HomeWorks® QS Dynamic Keypads

## Specifications

<b>Model Number</b>	HQ-J-DK420-XX, HQ-W-DK420-XX
<b>Power</b>	24–36 V $\overline{=}$ 113 mA
<b>Typical Power Consumption</b>	1.5 W; 6 Power Draw Units* (PDUs). Test conditions: LCD backlight on at 80%, buttons backlight on at 28%, while in use. * For more information about PDUs, please see the HomeWorks® QS Wiring and Power Guidelines document on the HomeWorks® QS Resource Website.
<b>Regulatory Approvals</b>	UL, cUL, CE
<b>Environment</b>	Ambient operating temperature: 32 °F to 104 °F (0 °C to 40 °C), 0%-90% humidity, non-condensing. Indoor use only.
<b>Communications</b>	Dynamic Keypads communicate with the system through the Wired QS Link or through Radio Frequency (RF). When using RF (HQ-J models only), the Dynamic Keypad must be located within 30 ft (9 m) of a repeater. System devices operate on frequencies between 431.0 MHz and 437.0 MHz. To improve system commissioning time, Lutron recommends no more than ten Dynamic Keypads per RF Link. QS Link wired installations offer faster commissioning time.
<b>ESD Protection</b>	Tested to withstand electrostatic discharge without damage or memory loss, in accordance with IEC 61000-4-2.
<b>Surge Protection</b>	Tested to withstand surge voltages without damage or loss of operation, in accordance with IEEE C62.41-1991 Recommended Practice on Surge Voltages in Low-Voltage AC Power Circuits.
<b>Power Failure</b>	Power failure memory: should power be interrupted, the Dynamic Keypad will return to its previous state when power is restored.
<b>Mounting</b>	The Dynamic Keypad must be installed in a flat, hollow wall (e.g., not concrete wall). If gap between wall and mounting frame is larger than the thickness of a credit card, wall must be repaired to eliminate gap. Otherwise, damage to the Keypad may result. Custom mounting frame included. Minimum wall depth: 2¼ in (57 mm). Wall thickness range: 1/4 in (6 mm) to 1 in (25 mm).
<b>Wiring</b>	RF: Two 18 AWG (1.0 mm <sup>2</sup> ) SELV/PELV/NEC® Class 2 cable. Wired: Two 22 AWG (0.5 mm <sup>2</sup> ) twisted shielded and two 18 AWG (1.0 mm <sup>2</sup> ) SELV/PELV/NEC® Class 2 cable. Use Lutron® cable GRX-CBL-346S.
<b>Warranty</b>	<a href="http://www.lutron.com/TechnicalDocumentLibrary/Warranty.pdf">www.lutron.com/TechnicalDocumentLibrary/Warranty.pdf</a> <a href="http://www.lutron.com/TechnicalDocumentLibrary/Intl_Warranty.pdf">www.lutron.com/TechnicalDocumentLibrary/Intl_Warranty.pdf</a>

## Design Features

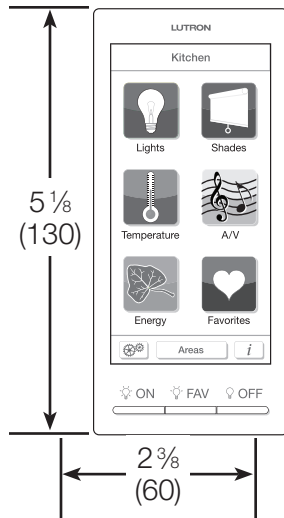
- Simple, intuitive control of lights, shades/draperies, compatible HVAC equipment, and Audio/Visual equipment from a single location.
- The capacitive touch interface provides a rich user experience and flexible control for a single room or an entire home.
- Use individual pages for simple control of lighting, shades/draperies, and temperature in rooms throughout the home.
- Wireless or wired installation.
- Three hard buttons provide instant access to frequently used lighting functions.
- Ensures reliable system control through the Lutron® patented Clear Connect® RF technology (HQ-J models only) or through wired QS link.
- Slim 0.5 in (13 mm) profile off the wall.
- Reduces wall clutter by combining multiple controls into one control.
- Create or modify on-screen buttons easily through system Design and Programming Utility.

# HomeWorks<sup>®</sup> QS Dynamic Keypads

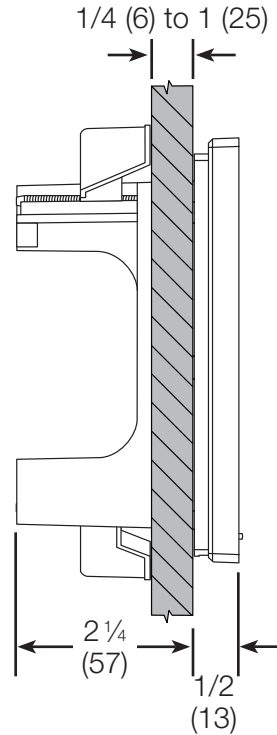
## Dimensions

All dimensions are shown as  $\frac{\text{in}}{\text{(mm)}}$

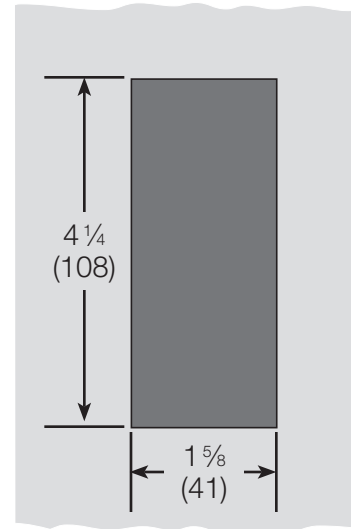
**Front View**



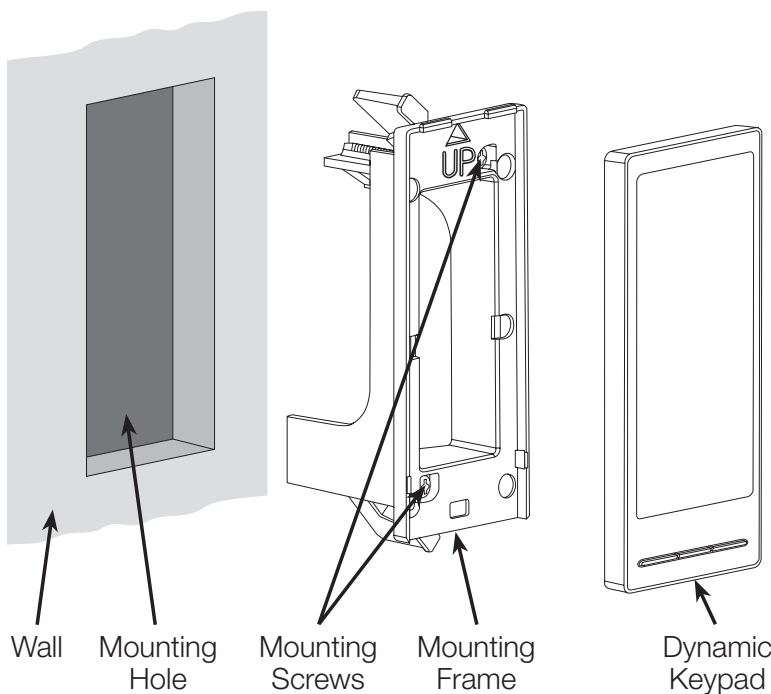
**Side View**



**Mounting Hole**



## Mounting and Parts Identification

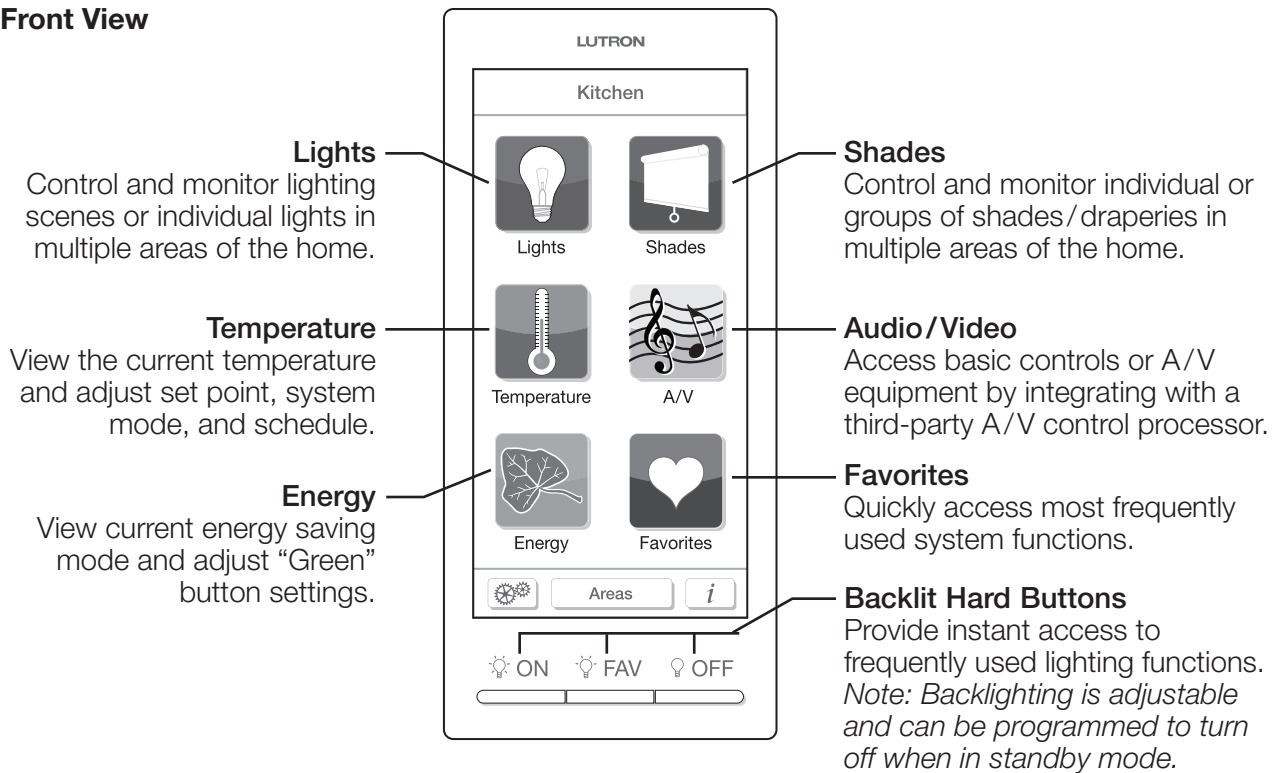


Note: The Dynamic Keypad must be installed in a flat, hollow wall (e.g. not concrete wall). If gap between wall and mounting frame is larger than the thickness of a credit card, wall must be repaired to eliminate gap. Otherwise, damage to the Keypad may result.

# HomeWorks® QS Dynamic Keypads

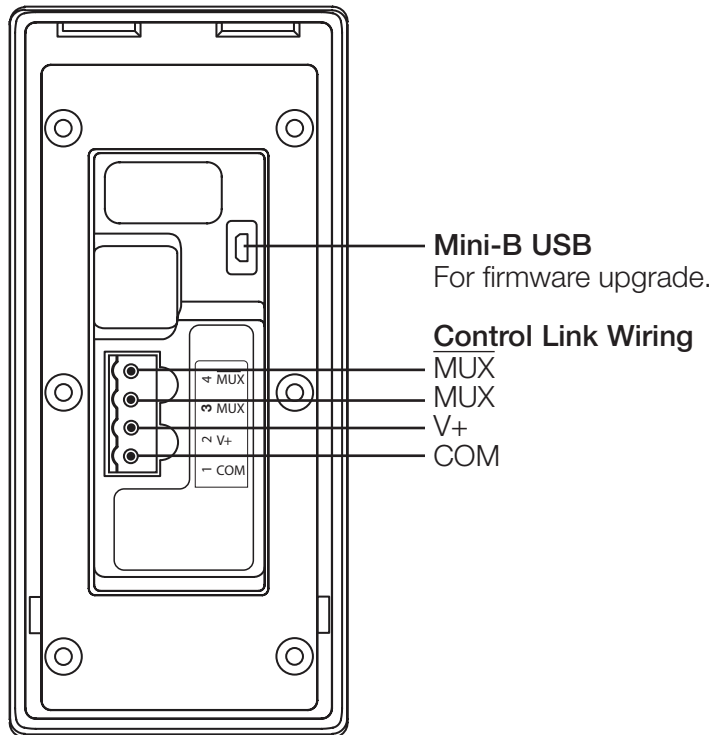
## Operation

### Front View



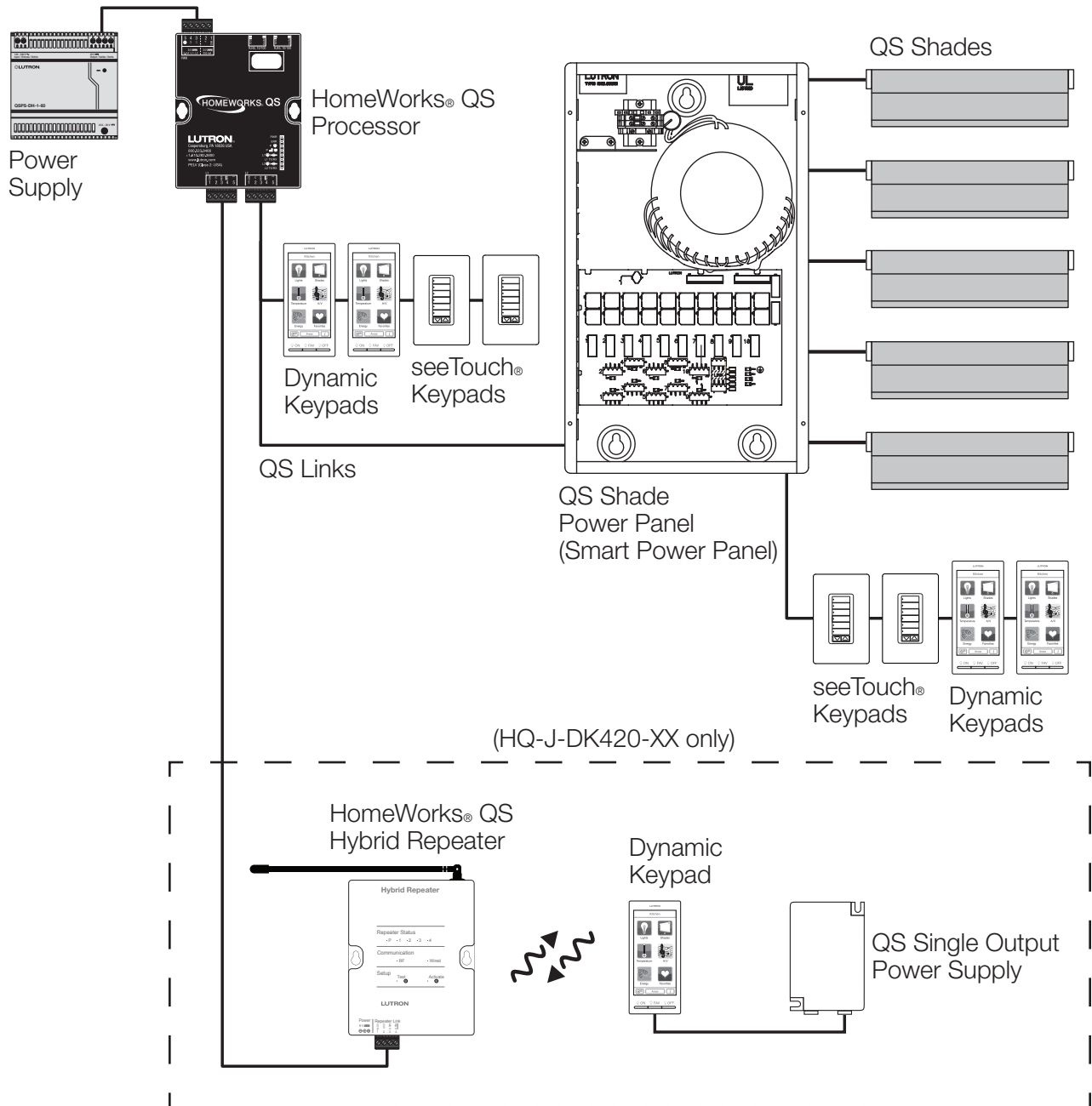
## Connections

### Rear View



# HomeWorks<sup>®</sup> QS Dynamic Keypads

## Wiring Diagram



Note: To improve system commissioning time, Lutron recommends no more than ten Dynamic Keypads per RF Link. QS Link wired installations offer faster commissioning time.