# QS Wired Palladiom™ Keypad

The QS wired Palladiom™ Keypad allows the user to control Lutron® load-control devices via a QS link.

Features

- Large buttons are easy to use
- Buttons with white, backlit engraving make it easy to find and operate the keypad in low-light conditions
- Button engraving is easy to read
- Available in a variety of colors and finishes
- Keypad available in a variety of button marking options
- Wires to the QS Link
- Works within Quantum®, myRoom™ Plus, and myRoom™ Prime systems
- Status of active button press or scene is indicated through intensity of backlighting
- Dynamic Backlighting Management (DBM) automatically adjusts backlighting intensity based on ambient lighting conditions
- Backlighting can also be programmed in Quantum® and myRoom™ systems to adjust backlighting intensity
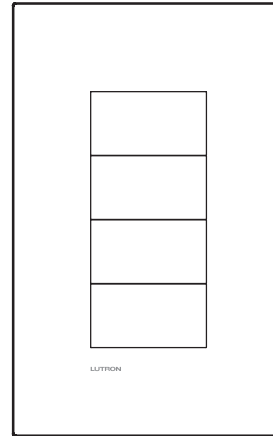
1-Gang U.S. Style
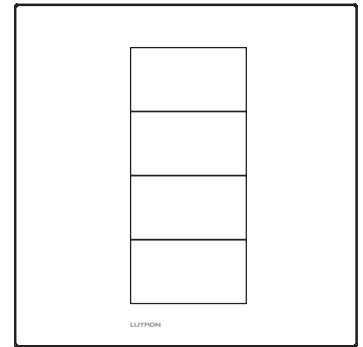
1-Column Square Style

Colors and Finishes

Architectural Matte Finishes

- Almond **AL**
- Beige **BE**
- Black **BL**
- Brown **BR**
- Gray **GR**
- Ivory **IV**
- Light Almond **LA**
- Sienna **SI**
- Taupe **TP**
- White **WH**

Architectural Metal Finishes

- Antique Brass **QB**
- Antique Bronze **QZ**
- Bright Brass **BB**
- Bright Chrome **BC**
- Bright Nickel **BN**
- Satin Black Steel **SK**
- Satin Brass **SB**
- Satin Chrome **SC**
- Satin Nickel **SN**

Glass Finish

- Clear Black Glass **CBL**
- Clear White Glass **CWH**

- Due to printing limitations, colors and finishes shown cannot be guaranteed to perfectly match actual product colors.
- Color chip keychains are available for more precise color matching:
  - Architectural Matte Finishes: AM-CK-1
  - Architectural Metal Finishes: AMTL-CK-1

Job Name:	Model Numbers:
Job Number:	

Specifications

Regulatory Approvals
- Lutron® Quality Systems registered to ISO 9001:2008
- Complies with UL 508
- Complies with IEC 60669-2-1
- Complies with CSA C22.2 No. 14-13

Power Input
- IEC PELV/NEC® Class 2
- Operating voltage: 24 – 36 V⎓ 30 mA

System Communication and Capacity
- IEC PELV/NEC® Class 2 wiring connects Keypads to other devices on the QS Link
- A Quantum® system can have up to 100 QS devices on the QS link
- A myRoom™ Plus or myRoom™ Prime system can have up to 50 QS devices on the QS link
- Each base unit counts as 1 device on the QS link
- Each button column of a QS wired Palladiom™ Keypad consumes 1 power draw unit (PDU) on the QS link. For complete information, see "Power Draw Units on the QS Link" (Lutron® P/N 369405)

Terminals
- Each terminal accepts up to two 18 AWG (1.0 mm²) wires.

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

Key Design Features
- Field-changeable button and faceplate assemblies allow for customization. See How to Build a Model Number (Button Kits) for more information
- Meets IEC 801-2. Tested to withstand 15 kV electrostatic discharge without damage or memory loss
- Faceplate snaps on with no visible means of attachment
- Use Faceplate or Button Kits to change color or engraving
- Engraving font: 11- or 14-pt Helvetica; special characters available (e.g., ç, ñ); Chinese and Arabic languages NOT available
- IP20 Rating
- Control operation complies with ADA standards for an accessible design

Compatibility
- QS wired Palladiom™ Keypads are compatible with:
  – Quantum® systems
  – myRoom™ Plus systems
  – myRoom™ Prime systems

Mounting
- Typical U.S. style wallbox dimensions: 3.7 in (95 mm) H × 1.8 in (46 mm) W × 2.8 in (70 mm) D
- Typical Square style wallbox dimensions: 75 mm H × 75 mm W × ≥25 mm D
- Typical Round style wallbox dimensions: ⌀ 68 mm × ≥25 mm D
- See Mounting for more details
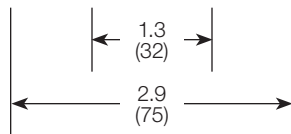
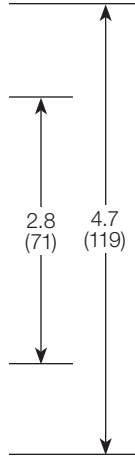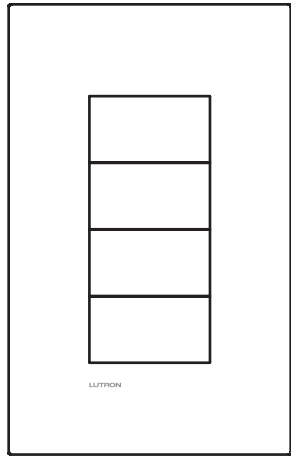| Job Name:	Model Numbers:
Job Number:	

Dimensions

U.S. Style
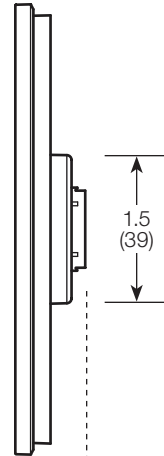Measurements shown as: in (mm)

1-Gang
Front View   Side View

2.8 (71)   4.7 (119)
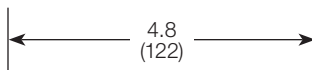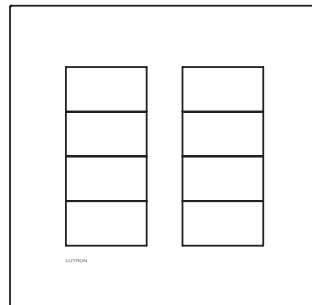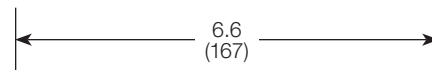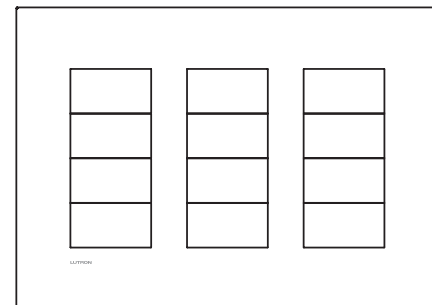
1.5 (39)

1.3 (32)

2.9 (75)

0.4 (9)

0.4 (9)

2-Gang
Front View

4.8 (122)

3-Gang
Front View

6.6 (167)

4-Gang
Front View

4.7 (119)

8.4 (213)
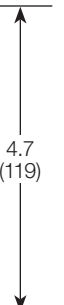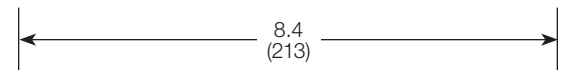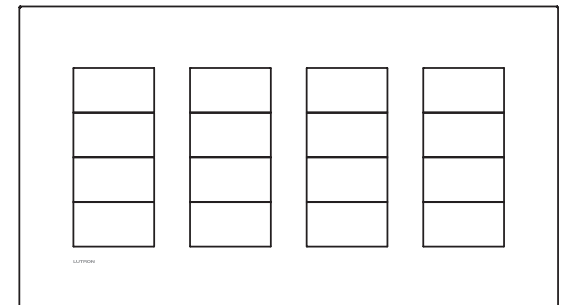
Job Name:	Model Numbers:
Job Number:	

Dimensions (continued)

Square Style
Measurements shown as: mm (in)

1-Column

Front View   Side View
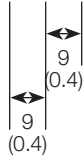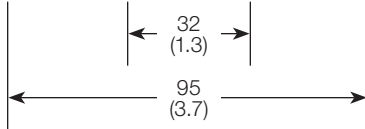
71
(2.8)

95
(3.7)

39
(1.5)

32
(1.3)

95
(3.7)

9
(0.4)

9
(0.4)

2-Column

Front View

102
(4.0)

4-Column

Front View

95
(3.7)

194
(7.6)

Job Name:	Model Numbers:
Job Number:	

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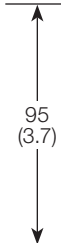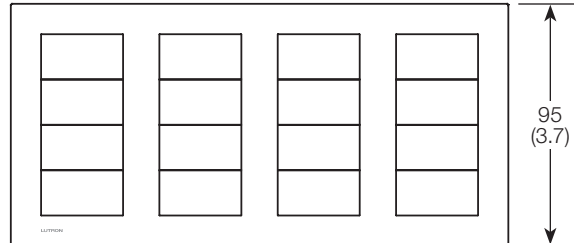
How to Build a Model Number

Keypads

QWP – U – 2 W – WH – E

System Type
QWP: Quantum®
MWP: myRoom™ (Plus or Prime)

Faceplate Options
B: Base Unit without Faceplate
U: U.S. Style
S: Square Style

Button Configurations
1-Gang/Column, U.S. or Square Style
2: 2-Button
3: 3-Button
4: 4-Button
R: 3-Button with Raise/Lower

2-Column Square Style*

	Left Column	Right Column
22:	2-Button	2-Button
24:	2-Button	4-Button
2R:	2-Button	3-Button with Raise/Lower
RR:	3-Button with Raise/Lower	3-Button with Raise/Lower
42:	4-Button	2-Button
44:	4-Button	4-Button
4R:	4-Button	3-Button with Raise/Lower

* 2-column keypads require predefined custom engraving (-E)
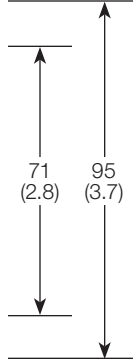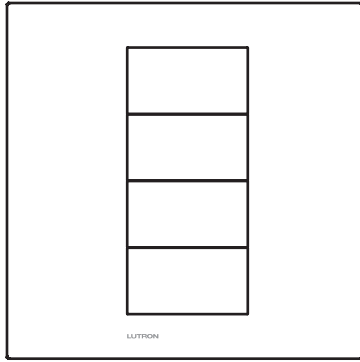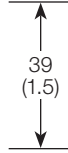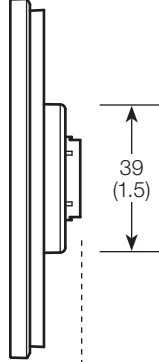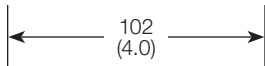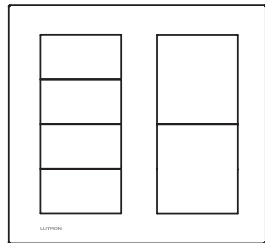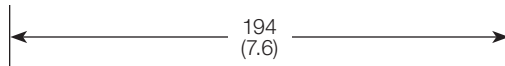
Backlighting
W: White

Colors and Finishes
Architectural Matte Finishes
AL: Almond
BE: Beige
BL: Black
BR: Brown
GR: Gray
IV: Ivory
LA: Light Almond
SI: Sienna
TP: Taupe
WH: White

Architectural Metal Finishes
QB: Antique Brass
QZ: Antique Bronze
BB: Bright Brass
BC: Bright Chrome
BN: Bright Nickel
SB: Satin Black Steel
SB: Satin Brass
SC: Satin Chrome
SN: Satin Nickel

Glass Finish
CBL: Clear Black Glass
CWH: Clear White Glass

Engraving
See **Engraving Options** for more details
E: Predefined custom engraving*/**
L01: 2-Button Lights
L02: 2-Button with Raise/Lower Lights
L03: 3-Button Lights
L04: 3-Button with Raise/Lower Lights
L05: 4-Button Lights
L06: 2-Group Lights
M01: 2-Button Hotel Entry
M02: 2-Button Privacy Service
M03: 4-Button Hotel Scene
S01: 2-Button with Raise/Lower Shades
S02: 2-Button with Raise/Lower Shades (Shade printing)
S03: 2-Button with Raise/Lower Shades (Sheer printing)
S04: 2-Button with Raise/Lower Shades (Blackout printing)
S05: 3-Button with Raise/Lower Shades
S06: 2-Button Shades

* Customer must provide engraving details at time of order.
** Required for any 2-column keypad.

Job Name:	Model Numbers:
Job Number:	

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How to Build a Model Number

Button Kits
Use Button Kits to change color, button configuration, and engraving. Each Button Kit includes a button assembly.

$$PBT - 2 \quad W - WH - E$$

Family
PBT: Palladiom™
Button Kit

Backlighting
W: White

Engraving
See Engraving Options for more details

E: Predefined project engraving*

* Customer must provide engraving details at time of order.

Colors and Finishes
Colors and Finishes for buttons and faceplates must always match (e.g., matte plastic buttons with matte plastic faceplate, metal buttons with metal faceplate).

Architectural Matte Finishes
AL: Almond
BE: Beige
BL: Black
BR: Brown
GR: Gray
IV: Ivory
LA: Light Almond
SI: Sienna
TP: Taupe
WH: White

Architectural Metal Finishes
QB: Antique Brass
QZ: Antique Bronze
BB: Bright Brass
BC: Bright Chrome
BN: Bright Nickel
SB: Satin Black Steel
SB: Satin Brass
SC: Satin Chrome
SN: Satin Nickel

Glass Finish
CBL: Clear Black Glass
CWH: Clear White Glass

Button Configurations
1-Gang/Column,
U.S. or Square Style

2: 2-Button

3: 3-Button

4: 4-Button

R: 3-Button with Raise/Lower

Field Changes
Button engraving changes
Any keypad can have its buttons swapped in the field to change the engraving (e.g., 2-Button swapped for engraved 2-Button).

Button configuration changes
For easy system configuration changes, a 3-Button with Raise/Lower may be swapped in the field for a 4-Button.

Job Name:	Model Numbers:
Job Number:	

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How to Build a Model Number

Faceplate Kits
Use Faceplate Kits to change color and ganging. Each Faceplate Kit includes a faceplate adapter and faceplate.

LWT – U – P – WH

Family

LWT: Palladiom™ Faceplate Kit

Faceplate Options

U: U.S. Style

S: Square Style

Gangs* and Openings

P**: Palladiom™ Keypad

* Palladiom™ Keypads do not gang with other devices of different sizes (e.g., Maestro® or GRAFIK T™ controls).

** Repeat the letter designation "P" (4 maximum) for each opening (e.g., 1-gang = P, 2-gang = PP). See **How to Select a Palladiom™ Keypad**.

Colors and Finishes

Colors and Finishes for buttons and faceplates must always match (e.g., matte plastic buttons with matte plastic faceplate, metal buttons with metal faceplate).

Architectural Matte Finishes

AL:	Almond
BE:	Beige
BL:	Black
BR:	Brown
GR:	Gray
IV:	Ivory
LA:	Light Almond
SI:	Sienna
TP:	Taupe
WH:	White

Architectural Metal Finishes

QB:	Antique Brass
QZ:	Antique Bronze
BB:	Bright Brass
BC:	Bright Chrome
BN:	Bright Nickel
SB:	Satin Black Steel
SB:	Satin Brass
SC:	Satin Chrome
SN:	Satin Nickel

Glass Finish

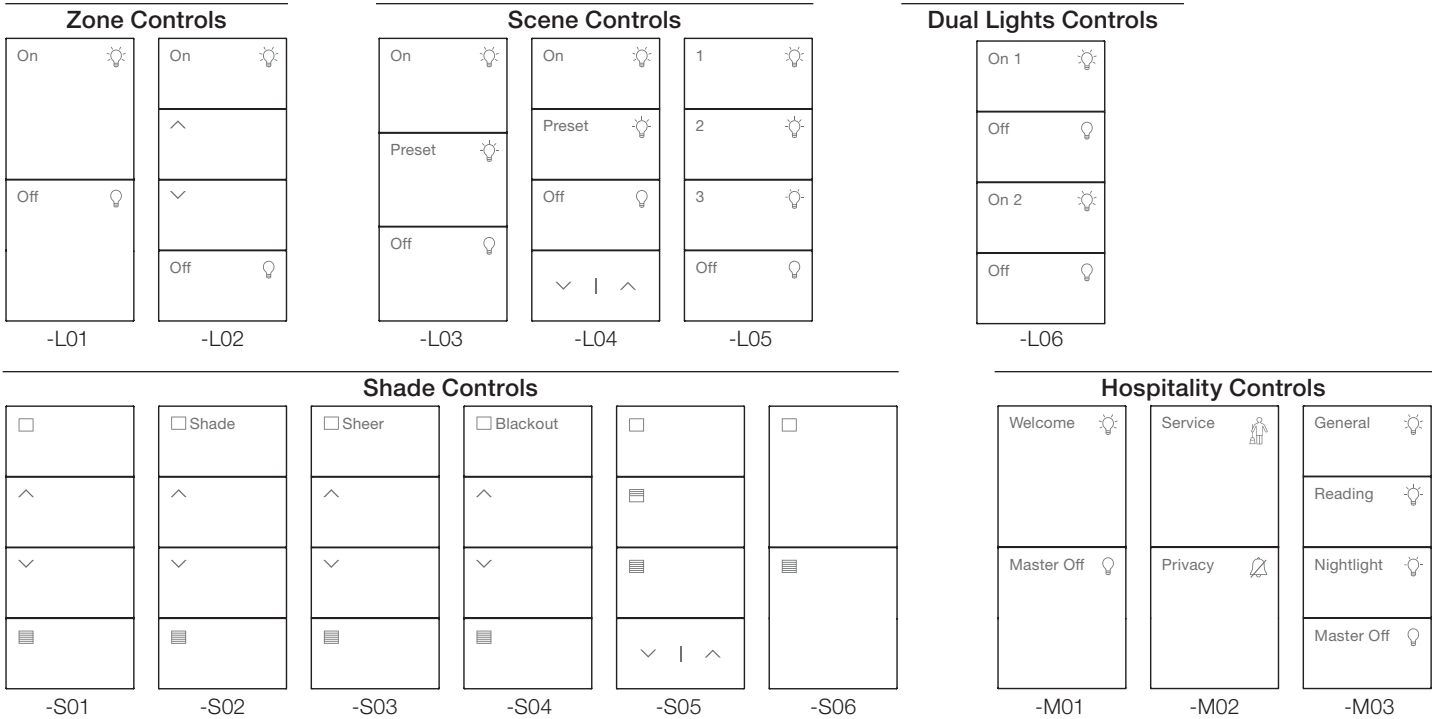|	
CBL:	Clear Black Glass
CWH:	Clear White Glass

Job Name:	Model Numbers:
Job Number:	

Engraving Options

The Palladiom™ Keypad has engraving options ideal for many scenarios. The following information will help you determine which engraving option is best-suited to your needs.

Standard Engraving (image details are subject to change)

Standard engraving options are designed for the most common instances. They are available only in the White (WH) plastic finish.

Zone Controls

On ☼	On ☼
	∧
Off ♀	∨
	Off ♀
-L01	-L02

Scene Controls

On ☼	On ☼	1 ☼
	Preset ☼	2 ☼
Preset ☼	Off ♀	3 ☼
Off ♀	∨ | ∧	Off ♀
-L03	-L04	-L05

Dual Lights Controls

| On 1 ☼ |
| Off ♀ |
| On 2 ☼ |
| Off ♀ |
| -L06 |

Shade Controls

☐	☐ Shade	☐ Sheer	☐ Blackout	☐	☐
∧	∧	∧	∧	▤	
∨	∨	∨	∨	▤	▤
▤	▤	▤	▤	∨ | ∧	
-S01	-S02	-S03	-S04	-S05	-S06

Hospitality Controls

| Welcome ☼ | Service 👤 | General ☼ |
		Reading ☼
Master Off ♀	Privacy 🔕	Nightlight ☼
		Master Off ♀
-M01	-M02	-M03

Predefined Project Engraving

Predefined project engraving is for instances when the customer knows the engraving details at the time of purchase and does not wish to order two sets of button kits. To select this option, use engraving option "E" when ordering the keypad. **Note**: Orders will not be shipped until engraving details are received.

Generic Engraving and Post-Defined Custom Engraving

When engraving details are not known or specified at the time an order is placed, the generic engraving icons shown below will be sent to provide the customer with a usable keypad until the custom engraving details are determined. This keypad will be shipped with an engraving certificate for ordering a custom-engraved button kit at a later time.

1	1	1	1
		2	2
2	2	3	3
	3	∨ | ∧	4
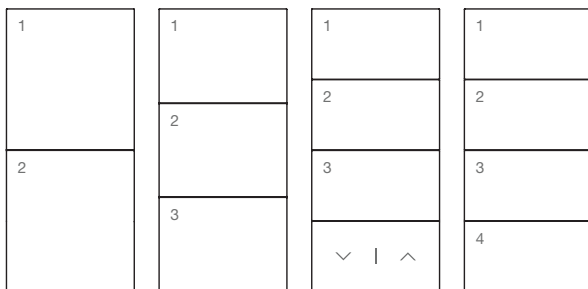
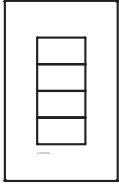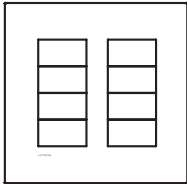| **Job Name:** | **Model Numbers:** |
| | |
| **Job Number:** | |

How to Select a Palladiom™ Keypad

Examples of keypad and faceplate configurations are shown below.

U.S. Style

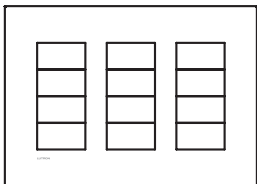| Model Number	Quantity	Assembled	Mount
1-Gang Wallbox			
QWP-U-4W-WH	1	Yes	U.S. Wallbox

Model Number	Quantity	Assembled	Mount
2-Gang Wallbox			
QWP-B-4W-WH	2	No*	U.S. Wallbox
LWT-U-PP-WH	1		

Model Number	Quantity	Assembled	Mount
3-Gang Wallbox			
QWP-B-3W-WH	3	No*	U.S. Wallbox
LWT-U-PPP-WH	1		

Model Number	Quantity	Assembled	Mount
4-Gang Wallbox			
QWP-B-2W-WH	4	No*	U.S. Wallbox
LWT-U-PPPP-WH	1		
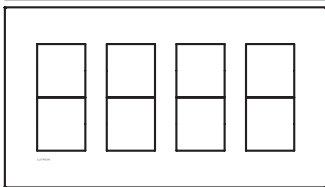
Square Style

Model Number	Quantity	Assembled	Mount
1-Column Wallbox			
QWP-S-4W-WH	1	Yes	Square or Round Wallbox
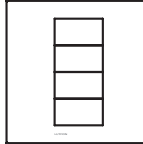
Model Number	Quantity	Assembled	Mount
2-Column Wallbox			
QWP-S-24W-WH	1	Yes	Square or Round Wallbox

3-button configuration not available.
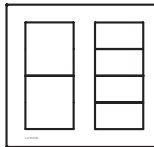
Model Number	Quantity	Assembled	Mount
4-Column Wallbox			
QWP-B-44W-WH	1	No*	2 Square or Round Wallboxes
QWP-B-22W-WH	1		
LWT-S-PPPP-WH	1		
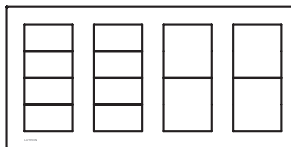
3-button configuration not available.

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* Model numbers must be ordered as separate pieces and assembled. See **Keypad Assembly**.

Job Name:	Model Numbers:
Job Number:	

Keypad Assembly

Tools Required: Phillips head screwdriver (not included)

1. Place button kit on back of faceplate.
2. Align bulk unit over button kit and faceplate.
3. Assemble using 4 screws (provided).
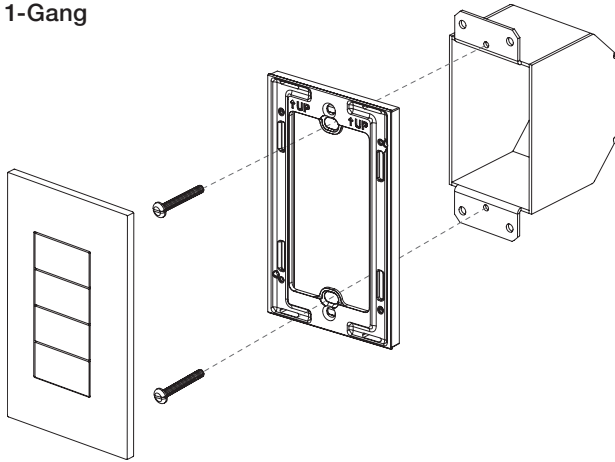4. Repeat steps 1–3 for each base unit.
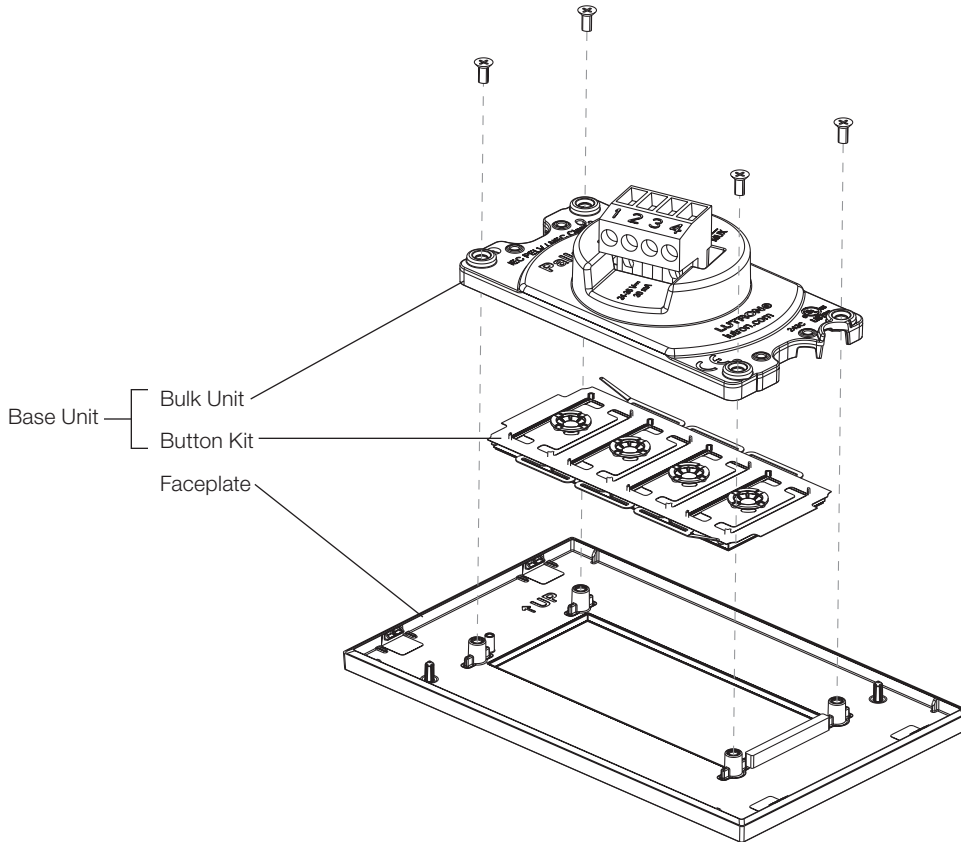
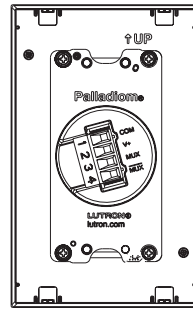| Job Name:	Model Numbers:
Job Number:	

Mounting

U.S. Style

1-Gang

Back View

2-Gang

Back View

Job Name:	Model Numbers:
Job Number:	

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Mounting (continued)

U.S. Style (continued)

3-Gang

Back View

4-Gang
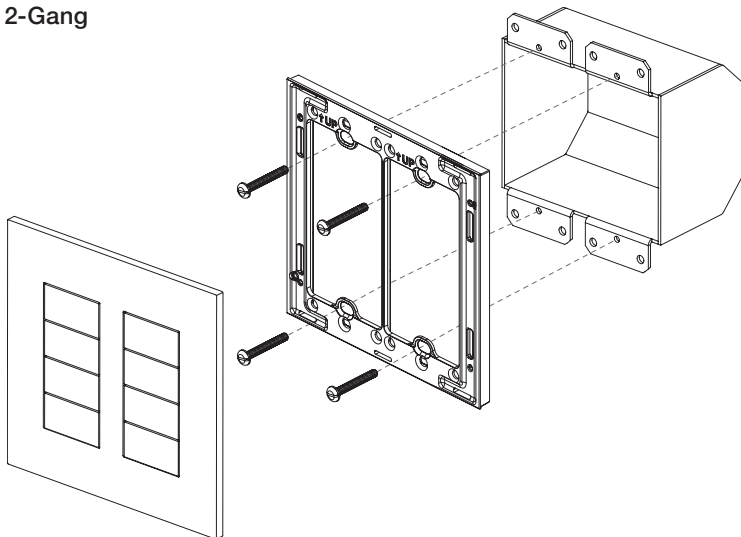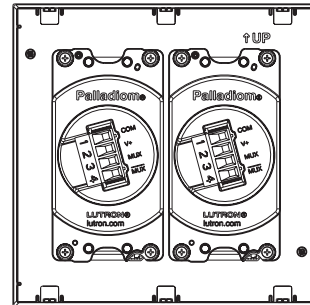
Back View

Job Name:	Model Numbers:
Job Number:	

Mounting (continued)

Square Style (Square or Round Wallbox*)

1-Column

Back View

Two **horizontal** screws **must** be used.

2-Column

Back View

Two **vertical** screws **must** be used.
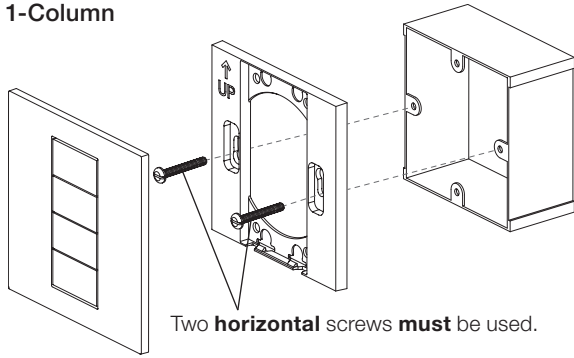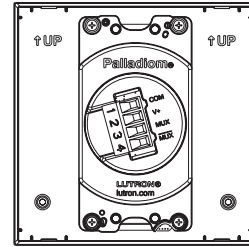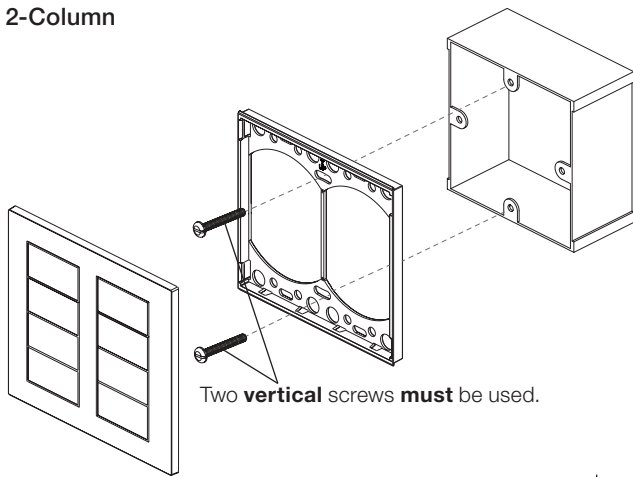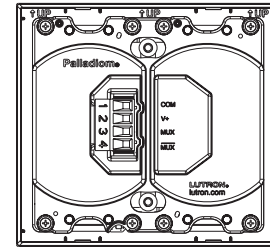
4-Column

Measurements shown as: mm (in)

92
(3.6)

Back View

*　Use wallbox with 4 available mounting screw holes for maximum flexibility.

Job Name:	Model Numbers:
Job Number:	

QS Link Wiring

- Use IEC PELV/NEC® Class 2 wiring to connect keypads to the QS link.
- Connect two 22 AWG (0.5 mm^2) shielded, twisted pairs of wires to terminals 3 and 4 of the keypad control link connector. Shielding (drai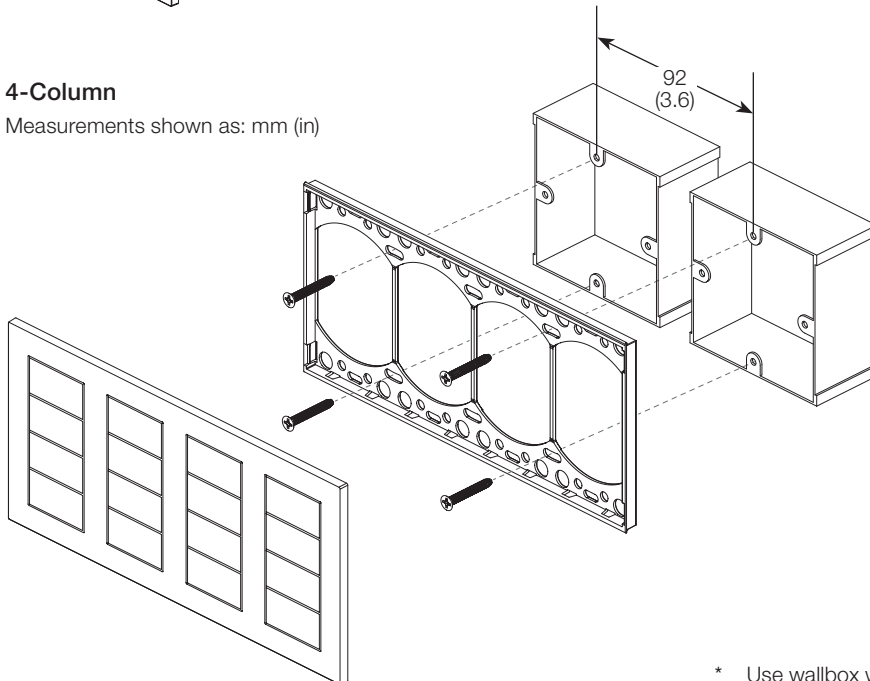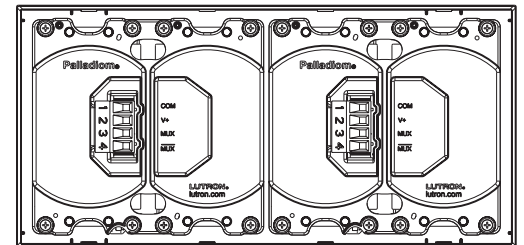n) of the twisted-pair wires must be connected together as shown, but do not connect the shielding to earth/ground or to the keypad and do not allow the shielding to contact the grounded wallbox.
- Connect the appropriate size wires to terminals 1 and 2 for power according to your link length (see table below).
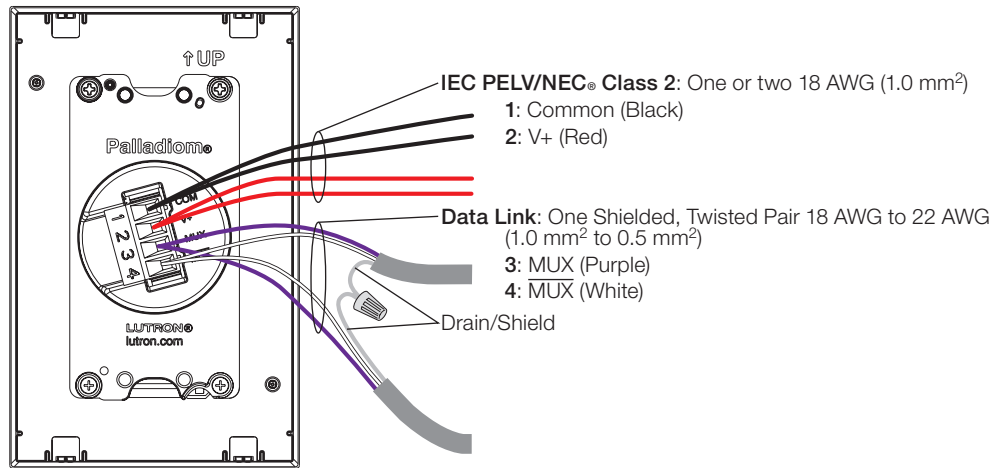
Note: Use appropriate wire connecting devices as specified by local codes.
- Each base unit model number counts as 1 device on the QS link.
- Each button column of a QS wired Palladiom™ Keypad consumes 1 power draw unit (PDU) on the QS link. For complete information, see "Power Draw Units on the QS Link" (Lutron® P/N 369405).
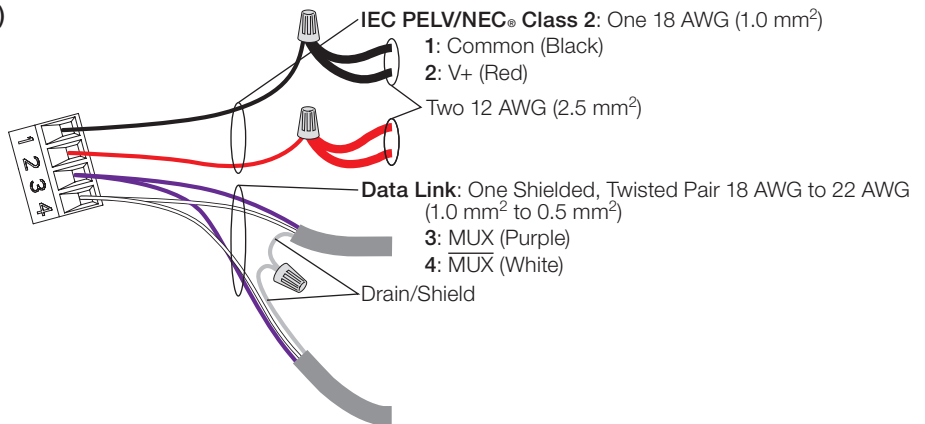
QS Link Wire Sizes (check compatibility in your area)

QS Link Wiring Length	Wire Gauge		Lutron® Cable Model Number
Less than 500 ft (153 m)	Power (terminals 1, 2): 1 pair 18 AWG (1.0 mm^2)		GRX-CBL-346S (non-plenum) GRX-PCBL-346S (plenum)
	Data (terminals 3, 4): 1 shielded, twisted pair 18 AWG to 22 AWG (1.0 mm^2 to 0.5 mm^2)		
500 ft to 2000 ft (153 m to 610 m)	Power (terminals 1, 2): 1 pair 12 AWG (4.0 mm^2)		GRX-CBL-46L (non-plenum) GRX-PCBL-46L (plenum)
	Data (terminals 3, 4): 1 shielded, twisted pair 18 AWG to 22 AWG (1.0 mm^2 to 0.5 mm^2)		

Link Wiring less than 500 ft (153 m)

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IEC PELV/NEC® Class 2: One or two 18 AWG (1.0 mm^2)
1: Common (Black)
2: V+ (Red)

Data Link: One Shielded, Twisted Pair 18 AWG to 22 AWG (1.0 mm^2 to 0.5 mm^2)
3: MUX (Purple)
4: $\overline{\text{MUX}}$ (White)
Drain/Shield

Link Wiring 500 ft to 2000 ft (153 m to 610 m)

IEC PELV/NEC® Class 2: One 18 AWG (1.0 mm^2)
1: Common (Black)
2: V+ (Red)
Two 12 AWG (2.5 mm^2)

Data Link: One Shielded, Twisted Pair 18 AWG to 22 AWG (1.0 mm^2 to 0.5 mm^2)
3: MUX (Purple)
4: $\overline{\text{MUX}}$ (White)
Drain/Shield

Job Name:	Model Numbers:
Job Number:	