HomeWorks QS Processor

The QS processor provides control and communication to HomeWorks system components.

The Ethernet links allow communication to the HomeWorks QS software, integration with third party systems and communication between multiple processors. HomeWorks QS processors may be connected using either standard networking or using ad-hoc networking. All processors on a project must be connected to a single network. The HomeWorks QS software and all integration equipment must be connected to the same network as the processors.

The processor is powered from the QSPS-DH-1-75 or QSPS-DH-1-60 power supply. Refer to the HomeWorks QS software to determine link power requirements.

The QS processor can be installed in a HQ-LV21, L-LV21, L-LV14, or PNL-8 enclosure.

Processor Capabilities

Each QS processor has 2 links that can be individually configured as one of four types:

- **HomeWorks Power Panels**
  16 interfaces / 256 zones

- **HomeWorks QS Wired Device Link**
  99 devices / 512 zones

- **HomeWorks Clear Connect**
  99 devices / 100 zones

- **HomeWorks Wired Dimmers**
  4 interfaces / 192 zones

Model Number

HQP6-2  HomeWorks QS Processor

Customer Assistance:
1.844.LUTRON1 (U.S.A. / Canada)
+44.(0)20.7680.4481 (Europe)
# HomeWorks QS Processor

## Specifications

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| **Power** | Processor (P): 24–36 V—250 mA  
Links (L1 / L2): 24–36 V—2 A per link |
| **Typical Power Consumption** | 5 W; 8 Power Draw Units (PDUs)  
Test conditions: Two Ethernet links connected, both device links in use |
| **Regulatory Approvals** | UL, cUL, CE, NOM |
| **Environment** | Indoor use only. 32 °F to 104 °F (0 °C to 40 °C), 0% to 90% humidity, non-condensing |
| **Heat Generated** | 17 BTU/hr — typical  
(24 BTU/hr with 2 links at 2 A each output) |
| **Cooling Method** | Passive Cooling |
| **Power Failure Memory** | System data stored in non-volatile memory. Timeclock retention for 10 years |
| **Internal Timeclock** | ±1 minute per year |
| **Miswire Protection** | All terminal block inputs are over-voltage and miswire protected against wire reversals and shorts. |
| **Low-Voltage Link Wire Type** | Two pair — one pair 18 AWG (0.75 mm²), one pair 18 to 22 AWG (0.34 to 0.75 mm²) twisted shielded — IEC PELV / NEC® Class 2 cable |
| **Low-Voltage Power Wire Type** | 18 AWG (0.75 mm²) |
| **Communications** | Ethernet, RS485 (QS, RF, Power Panel) |
| **Link Capacities** | HomeWorks Power Panels: 16 interfaces/256 zones  
HomeWorks QS Wired Device Link: 99 devices/512 zones  
HomeWorks RF Link: 99 devices/100 zones  
HomeWorks Wired Dimmers: 4 interfaces/192 zones |
| **ESD Protection** | Meets or exceeds the IEC 61000-4-2 standard |
| **Surge Protection** | Meets or exceeds ANSI/IEEE C62.41 standard |
| **Mounting** | Mounts in HQ-LV21, L-LV14, L-LV21, or PNL-8 enclosure |
| **Dimensions** | With terminal blocks (as shown): 4.27 in (108 mm) x 6.0 in (152 mm)  
Without terminal blocks: 4.27 in (108 mm) x 5.26 in (134 mm) |
| **Connections** | Two 5-pin removable terminal blocks* for Links 1 and 2.  
One 5-pin removable terminal block* for Power Input.  
Two RJ45 standard Ethernet connections.  
*Each terminal will accept up to two 18 AWG (0.75 mm²) wires. |
| **Warranty** | [Warranty](www.lutron.com/TechnicalDocumentLibrary/Warranty.pdf)  
[Intl_Warranty](www.lutron.com/TechnicalDocumentLibrary/Intl_Warranty.pdf) |
HomeWorks QS Processor

Dimensions

Dimensions shown as: in (mm)

Front View

4.27 (108)

5.26 (134)

6.0 (152)

Side View

1.06 (26.9)
HomeWorks QS Processor

Mounting

DIN Rail Power Supply (QSPS-DH-1-75 or QSPS-DH-1-60)

Wire Landing Boards (QS-WLB)

L-LV14/HQ-LV21

(1) Black COM (Common)
(2) Red P (Processor) Power
(3) Red L1 (Link 1) Power
(4) Red L2 (Link 2) Power
(5) Ground

L-LV21/HQ-LV21

L-LV14

PNL-8

www.lutron.com/support

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HomeWorks QS Processor

Wiring Diagrams — Networking

Standard Networking: Connection using an Ethernet hub/switch/router

Ad-hoc Networking: Direct Ethernet connection from PC to processors

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Wiring Diagrams — Power Panel Link

* Pin 2 does not get connected when using a power panel link.
HomeWorks QS Processor

Wiring Diagrams — H48 Dimmer Interface

H48 Link
LT-1 Terminal Block

To Processor or next H48 Dimmer Interface (max 4 HWI-H48 dimmer interfaces per link)

Pin 2 should NOT be connected

HomeWorks Maestro wired local controls

Max 8 HomeWorks Maestro wired local controls per bus

One pair 22 AWG (0.5 mm²) twisted, shielded Class 2 wires (max home run 500 ft [152.5 m] per local control, not to exceed 1000 ft [305 m] total per bus)
HomeWorks QS Processor

Wiring Diagrams — HomeWorks Clear Connect

* HomeWorks Hybrid Repeaters can be powered from the Processor link or a wall-mount transformer. If powering from a wall-mount transformer, Pin 2 does not get connected.
HomeWorks QS Processor

Wiring Diagrams — QS Link

Maximum 2 A combined current draw from processor when powering both links from the same power supply.

Wiring Diagrams — Link Power

More current can be supplied by an additional power supply.

Max 2 A per link when using a separate power supply for each link.
HomeWorks QS Processor

Wiring Diagrams—QS Wired Device Link with Shades/Draperies (Controllable Window Solutions)