HomeWorks QS Processor

The HomeWorks QS processor provides control and communication to HomeWorks QS 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-1-60 power supply. Refer to the HomeWorks QS software to determine link power requirements.

The HomeWorks QS processor can be installed in an HQ-LV21 enclosure.

Processor Capabilities

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

- **HomeWorks / HomeWorks QS Power Panels**
  - 16 addresses / 256 zones

- **HomeWorks QS Wired Device Link**
  - 100 devices / 500 zones
  - HomeWorks QS Control Interfaces
  - HomeWorks QS Dynamic Keypad
  - HomeWorks QS seeTouch® Keypad
  - GRAFIK Eye® QS Control Unit
  - Sivoia® QS shades

- **HomeWorks QS RF Link**
  - 100 devices / 100 zones
  - HomeWorks QS Dynamic Keypad
  - HomeWorks QS Maestro® Dimmers/Switches
  - HomeWorks QS Lamp Dimmers
  - HomeWorks QS RF seeTouch Keypad
  - Sensors, Occupancy/Vacancy
  - Sivoia QS Wireless Shades
  - HomeWorks QS Tabletop Keypad
  - GRAFIK Eye QS Control Units

Model Number

HQP6-2-120  HomeWorks QS Processor
# HomeWorks QS Processor

## Specifications

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<th>Model Numbers</th>
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| Power         | Processor (P): 24 V \(\Rightarrow\) 250 mA  
                | Links (L1 / L2): 24 V \(\Rightarrow\) 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 |
| Environment | Indoor use only. 32 °F and 104 °F (0 °C and 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 mm\(^2\)), one pair 18 to 22 AWG (0.34 to 0.75 mm\(^2\)) twisted shielded — IEC PELV / NEC® Class 2 cable |
| Low-Voltage Power Wire Type | 18 AWG (0.75 mm\(^2\)) |
| Communications | Ethernet, RS485 (QS, RF, Power Panel) |
| Link Capacities | HomeWorks / HomeWorks QS Power Panels 16 addresses / 256 zones  
                        | HomeWorks QS Wired Device Link 100 devices / 500 zones  
                        | HomeWorks QS RF Link 100 devices / 100 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 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 RJ-45 standard Ethernet connections.  
                         | *Each terminal will accept up to two 18 AWG (0.75 mm\(^2\)) wires. |

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*NEC is a registered trademark of the National Fire Protection Association, Quincy, Massachusetts.*
**HomeWorks QS Processor**

**Dimensions**

Dimensions shown as: in (mm)

**Front View**

- 4.27 (108)
- 5.26 (134)

**Side View**

- 6.0 (152)
- 1.06 (26.9)
HomeWorks QS Processor

Mounting

- Mounts in HQ-LV21 enclosure
HomeWorks QS Processor

Wiring Diagrams — Networking

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

HQ-LV21 Panel with 2 HomeWorks QS processors

Ethernet cable: Cat5/Cat5e 328 ft (100 m) maximum per home run

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

Ethernet cable: Cat5/Cat5e 328 ft (100 m) maximum each run

Up to 5 processors can be daisy-chained
HomeWorks QS Processor

Wiring Diagrams — Power Panel Link

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

Wiring Diagrams — HomeWorks QS RF Link

* HomeWorks QS 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

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

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