

# QIS POWER AND COMMUNICATION PANEL

9910812

Power and control up to 8 low voltage shade motors from one panel



Panel provides protection against short circuit or overload to individual shades

Connect wired switches and third party systems for control of shades

24 volt power for shades and switches provided by separate wired power supply

Connect up to 8 power panels together for distributed shade control of up to 96 shades



Low voltage shade motors are quiet and energy efficient

## DESCRIPTION

The Qadvanced Intelligent System (QIS) Shade Control System Power and Communication Panel provides power and control for hardwired low voltage QIS shade motors. The shade motors, switches and power panels are inter-connected using easy to wire RJ45 wiring (not POE). Use the RJ45 ports to connect a combined total of 8 shades or wall switches to a single panel. QIS power panels can be connected to Legrand automation or other third party systems for control of shades via an RS45. A total of 8 power panels can be connected together to create a distributed network of shades and controls. The QIS shade motors have a unique counter-balance spring design that allows shade to use less energy and for extremely quiet operation. This patented design also allows the shades to be manually pulled into position using the hembar. This feature is unique to the QIS system.

## OPERATION

The QIS system offers a number of methods for controlling QIS shade motors. The first is using a hardwired QIS single or double switch connected to a QIS power panel via RJ45. This allows for up/down and preset control of the shades. The second method uses the power panel RS485 connection to connect to Legrand Lighting and Control systems or third party systems for integrated control with lighting or building systems. Lastly, the shade can be manually pulled into position using the hembar.

## APPLICATIONS

QIS shades are recommended for virtually all applications, including offices, conference rooms and classrooms. They are ideal for any area where motorized or automated shade control is desired. The combination of low voltage shade motors and distributed control allows for quiet and energy efficient control of roller shades.

## FEATURES

- QIS Hardwired shades deliver a robust and dependable low voltage shade control system
- The unique counter-balance spring mechanism in the shade tube allows for manual operation of the shades
- Shades can be controlled in two ways:
  - Using a hardwired QIS switch connected to the power panel
  - Using a third party system via RS485.
- Connect up to 8 power panels to control up to 96 roller shades
- Each Power and Communication Panel can control up to 8 shades. Wired switches are connected to same ports as shades.
- Power and Communication Panel comes with remote power supply for ease of wiring
- Each shade motor comes with a 6" or 35" wire whip for added flexibility when wiring the system
- Shade motor ships with a male connector and an inline coupler keystone so that the shade can be installed, regardless of the wire at hand
- Optional 4 conductor to RJ45 wiring adapter allows the installer to use existing 4 conductor cable to connect the motors. Ideal for retrofit applications

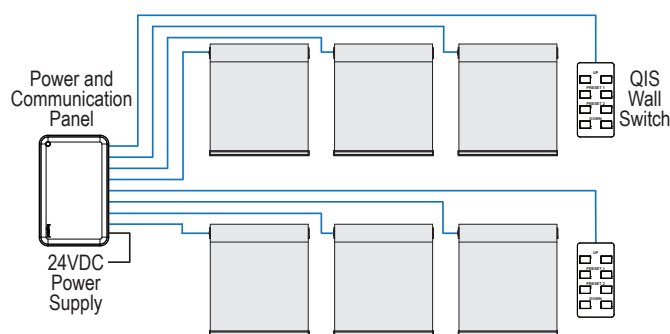
PROJECT		LOCATION/ TYPE	
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## SPECIFICATIONS

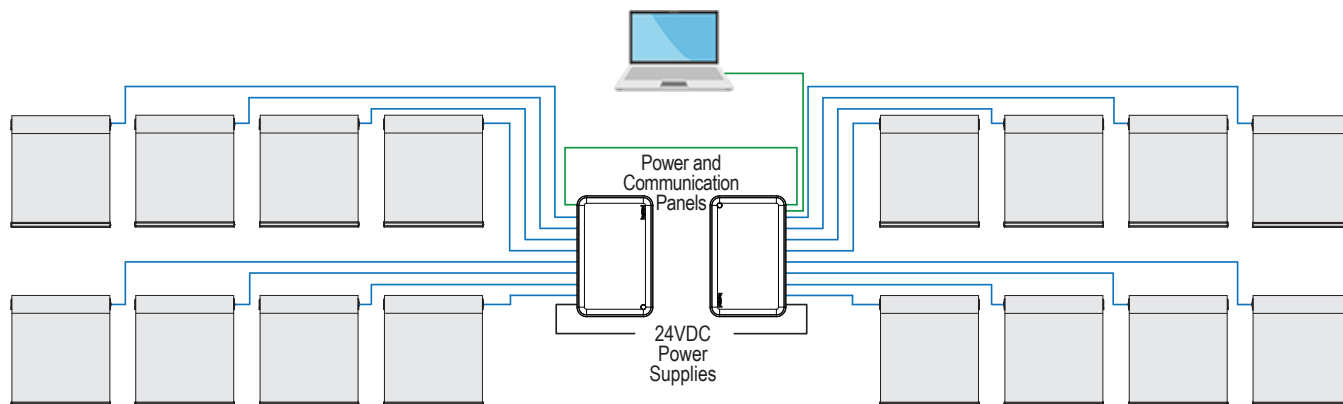
- DC output: 24 Volt, 7.5 Amps
- AC input: 100-240 Volts ~ 2.5 Amps
- 8 RJ45 Ports for Motorized Shades and switches – each power panel
- 2 Communication Ports (RS485) – each power panel
- Max number of devices on a connected QIS system = 100.
- Maximum distance from wall switch to farthest Power and Communication Panel is 1,000 feet. Illustration
- Switch to farthest Power Panel is 1,000 ft
- Each shade motor has ZigBee 3.0 2-way communication on-board
- Panels provide protection against short circuit or overload to individual shades.
- Maximum wire length for RS485 communication is 2,000 feet from source to shade.
- Wall Mounted wired Switches receive power through Power Over Cable (POC)
- Maximum distance between shade and Power Communication Panel – 750 ft
- RS485 Wire length from source to shade = 2000 ft

## CONNECTIVITY

### Hard-Wired Switch Application

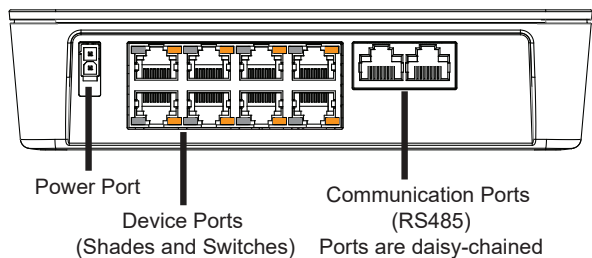


### Third Party Integration

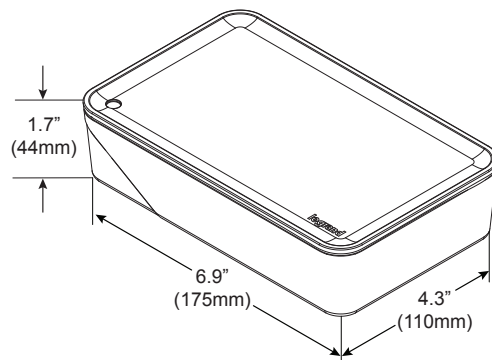
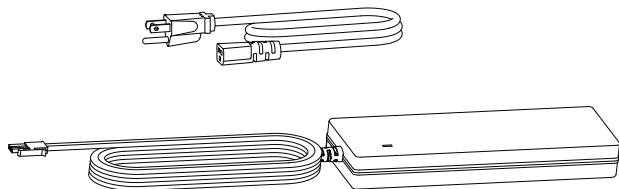


Cables from Power Panel to shades are RJ45  
 Cables from PC running Third Party Software are RS485

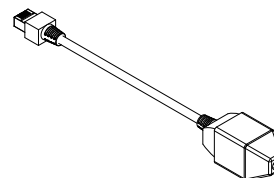
## CONNECTIONS AND DIMENSIONS



### Power supply and cord



### RJ45 to four wire adapter



The QIS RJ45 wiring adapter allows for pre-wired four wire cabling to easily connect QIS shades, resulting in simple and convenient connection to Legrand Shades without rewiring the entire system. This six inch adapter provides communication and power connection without the added expense of new cabling.

## ORDERING INFORMATION

Catalog #	Description
<input type="checkbox"/> 9910812	QIS Power Panel V2, with Power Supply, white power panel with black power supply
<input type="checkbox"/> 6500092	QIS RJ45 WIRING ADAPTER, 4 wire to RJ45
<input type="checkbox"/> 9900837	QZHUB3 Zigbee Shade Gateway
<input type="checkbox"/> QMOLEEDZRX	Enhanced Zigbee Range Extender
<input type="checkbox"/> 9500424	Stand-alone Corded Range Extender/Coordinator