Panel Link Bridge

Control Panel Input Module for SJE RHOMBUS® Panel Link

Installation and Operation Manual



Technical support: +1-800-746-6287
techsupport@sjeinc.com
www.sjerhombus.com

TABLE OF CONTENTS

Warnings 1
Introduction and Specifications 2
Installation 3
Operation Overview 4
Programming 5-6
Mounting Dimensions 7

⚠WARNINGS

Failure to read and understand the information provided in this manual may result in personal injury or death, damage to the product or product failure. Please read each section in its entirety and be sure you understand the information provided in the section and related sections before attempting any of the procedures or operations given.

Failure to follow these precautions could result in serious injury or death. Keep these instructions with warranty after installation. This product must be installed in accordance with National Electrical Code, ANSI/NFPA 70 so as to prevent moisture from entering or accumulating within the controller housing.

⚠WARNING **ELECTRICAL SHOCK HAZARD**



A qualified service person must install and service this product according to applicable codes and electrical schematics. Disconnect power prior to servicing any equipment.

- Do not connect power to this equipment if it has been damaged or has any missing parts.
- Do not install in areas with: excessive or conductive dust, corrosive or flammable gas, moisture or rain, excessive heat, regular impact shocks, or excessive vibration.

⚠WARNING **EXPLOSION OR FIRE HAZARD**



Do not use this product with flammable liquids. Do not install in hazardous locations as defined by National Electrical Code, ANSI/NFPA 70.

Warning: Users must read this manual and understand controller operation before changing any settings. Entering incorrect settings may result in damage to equipment.

If the controller was shipped pre-installed in a control panel, some default values may have been changed at the factory in order to properly test the control panel operation. The user must adjust the settings to the requirements of the installation.

The user should always keep a record of the settings before making changes, in case there is a need to revert to previous settings. The user should also record all settings changed for use in programming a new controller in case a replacement is ever needed.

Always thoroughly test controller operation in the installed configuration to verify user settings.

INTRODUCTION & SPECIFICATIONS

Congratulations and thank you for your purchase of a Panel Link Bridge. This manual explains the features and operations of the Panel Link Bridge which is designed to work with a Panel Link Puck or other remote monitoring solution to monitor up to two pumps or other electrical loads for nearly any application. The Panel Link Bridge can also monitor any dry contact closure for an auxiliary alarm or other on/off state device.

GENERAL

- Pump/load current monitoring for one or two pumps/loads
- One alarm float or auxiliary contact closure monitoring
- On-board LED indication of active current for each input (green = normal, red flash = fault)
- On-board LED indication of a contact closure for the digital input (red flash = closed)
- On-board LED indication of power and communication status (white = power, green/blue = communicating, red flash = communication fault)
- Pluggable terminal block for power and digital input
- RJ45 connection for remote monitoring device
- 3.5mm jacks for current sensors

ELECTRICAL SPECIFICATIONS

- Universal 90-264 Vac, 50/60Hz input power
- 12 Vdc control voltage
- 6W Maximum power consumption
- 1-60A Current measurement
- 5mA Digital input current

DEDICATED I/Os

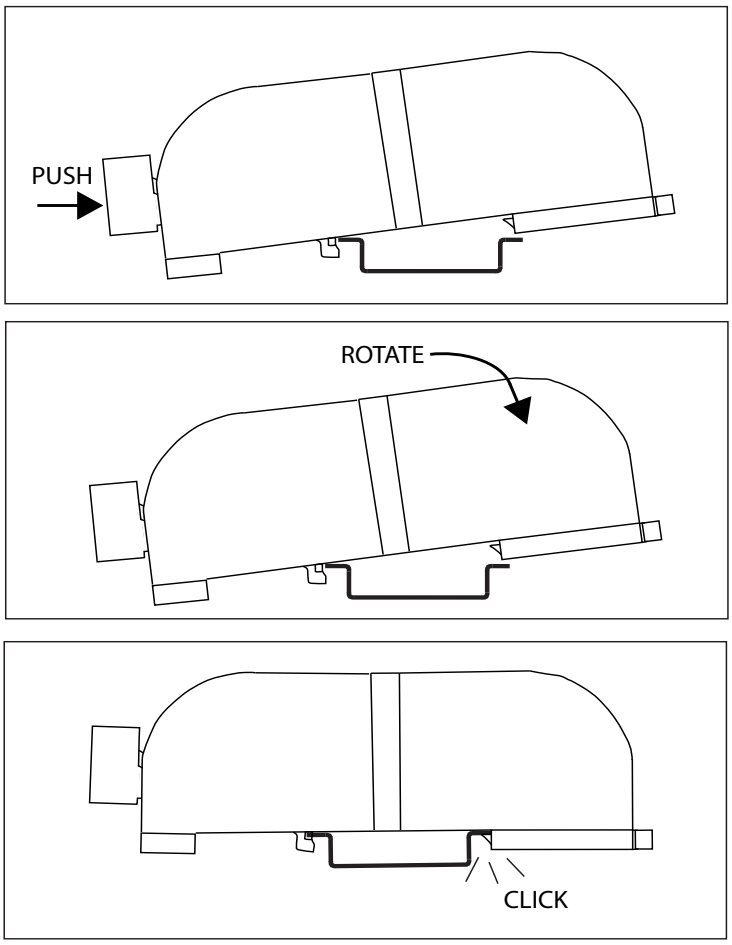
- (2) Analog Inputs – Current Measurement
- (1) Digital Input – Alarm Float/Other Dry Contact

ENVIRONMENT

- Operational temperature -18ºF to 140ºF (-28ºC to 60ºC)
- Storage temperature -40ºF to 140ºF (-40ºC to 60ºC)
- Relative Humidity (RH) 95% (non-condensing)
- Indoor rated – for indoor use or mounted inside an outdoor rated enclosure

INSTALLATION

1) The preferred method to mount the Panel Link Bridge is on 35mm top hat DIN rail. The DIN rail must be located inside an enclosed control panel or in an indoor location. To snap the Bridge onto the DIN rail, first hook the lower brackets around the din rail, then press the top of the Bridge down onto the DIN rail until it clicks into place. An alternative method of mounting the Panel Link Bridge is using the included adhesive ziptie mount and ziptie fitted around the housing in the ziptie groove.



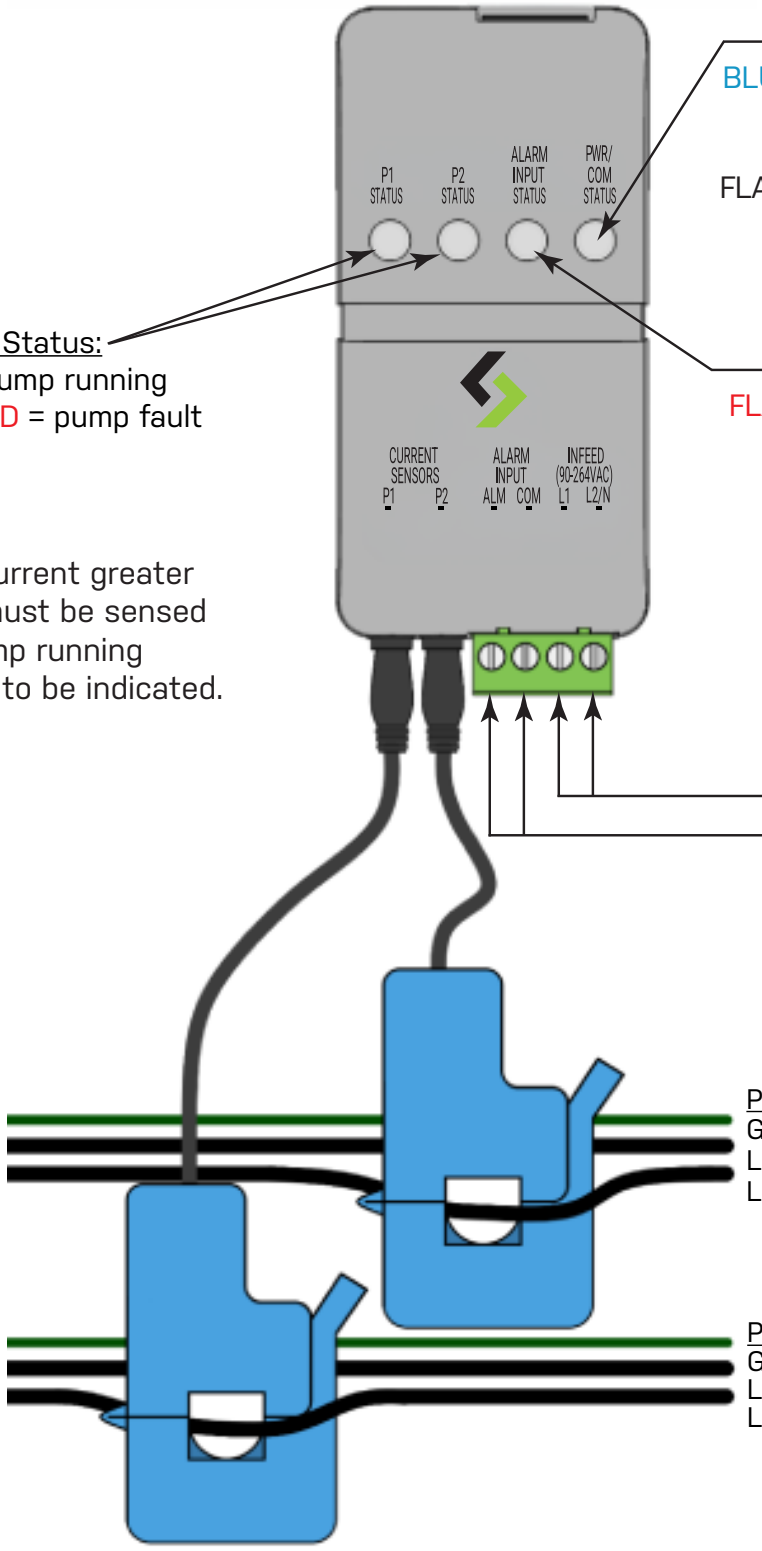
2) Connect the supply voltage wires to the L1 and L2/N terminals. Supply voltage must be 90 – 264 Vac. Make sure the wire insulation is stripped back to the proper length and tighten the terminal screws appropriately. Make sure the terminal plates do not clamp down against insulation.

3) Connect the alarm float (or other dry contact alarm signal) wires to the Alarm Input ALM and COM terminals. Make sure the wire insulation is stripped back to the proper length and tighten the terminal screws appropriately. Make sure the terminal plates do not clamp down against insulation.

4) Insert the 3.5mm plug for the current sensor into the P1 CURRENT SENSOR jack. Release the closure clip and hinge open the current sensor assembly. Place the current sensor around one of the power Pump 1 power wires. This must be placed around a single insulated conductor only; it cannot be placed around both pump power wires or around a jacketed pump power cable. Close the current sensor, making sure the closure clip snaps into place.

5) For a duplex application, repeat step 4 for the Pump 2 power wires, using the P2 CURRENT SENSOR jack.

OPERATION OVERVIEW



Power/Telemetry Status:
BLUE = received remote data from Puck
GREEN = sent data to Puck
WHITE = good data connection
FLASH RED/WHITE = no data connection

Pump Status:
GREEN = pump running
FLASHING RED = pump fault

Alarm Input Status:
FLASHING RED = alarm active

Note: A current greater than 1A must be sensed for a pump running condition to be indicated.

Supply Voltage
Alarm Float or Dry Contact

Pump 2:
GROUND
L2/N
L1

Pump 1:
GROUND
L2/N
L1

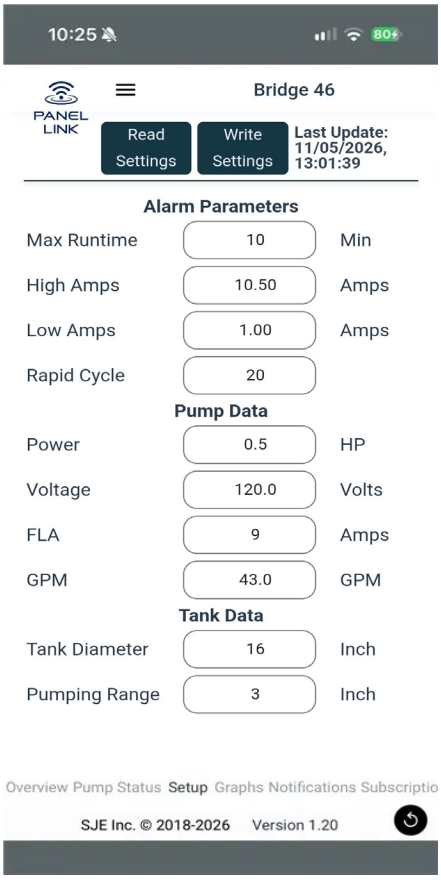
Note: Each current clamp should be clipped around a single insulated conductor

PROGRAMMING

WEB PORTAL PARAMETER SETUP

User parameters for the Panel Link Bridge can be set through the SJE Panel Link app (available for iOS and Android) or through the web interface at www.sjepanellink.com (for web portal) or https://sjepanellink.com:1997/#/login (for mobile app interface). For directions in installing the Panel Link app, setting up an account, registering your device, and viewing the status and history of your system, please see the Panel Link Puck user manual.

The user setting parameters for the Panel Link Bridge are shown in the example Panel Link app screen image here:



ALARM PARAMETERS

Max Runtime

This will alarm any time a pump runs continuously for this amount of time, measured in minutes. To disable this alarm, set Max Runtime to 0 minutes.

High Amps

Any time the motor current exceeds this value for five seconds, the High Amps Fault will be activated.

Low Amps

Any time the motor is running but the current is lower than this value for 10 seconds, the Low Amps Fault will be activated.

Rapid Cycle

If a pump runs more times per minute than this number, the Rapid Cycle Fault will be activated. Set Rapid Cycle to 0 to disable this feature.

PUMP DATA

Power

The nameplate power rating, in horsepower, of the pump motor.

Voltage

The nameplate voltage rating of the pump motor.

FLA

The nameplate Full Load Amps of the pump motor.

GPM

The pump rated gallons per minute flow rate at the installed system head conditions.

Tank Diameter

This is the diameter of the tank in which the pump(s) are installed. This is used in calculating gallons pumped and the pumping flow rate. If a value of "0" is entered, the entered pump GPM will be used for volume calculations. If a rectangular tank is used, the following calculation can be used for the equivalent tank diameter:

$$\text{Tank Diameter} = 2\sqrt{\frac{\text{Width x Length}}{3.14}}$$

Note: The "GPM" value will be used to estimate pumping flowrate and volume if both pumps are running.

Pumping Range

This is the pump draw-down height, in inches. It is the difference in water level between the level the pump turns on, and the level the pump turns off. This is used in calculating gallons pumped and the pumping flow rate.

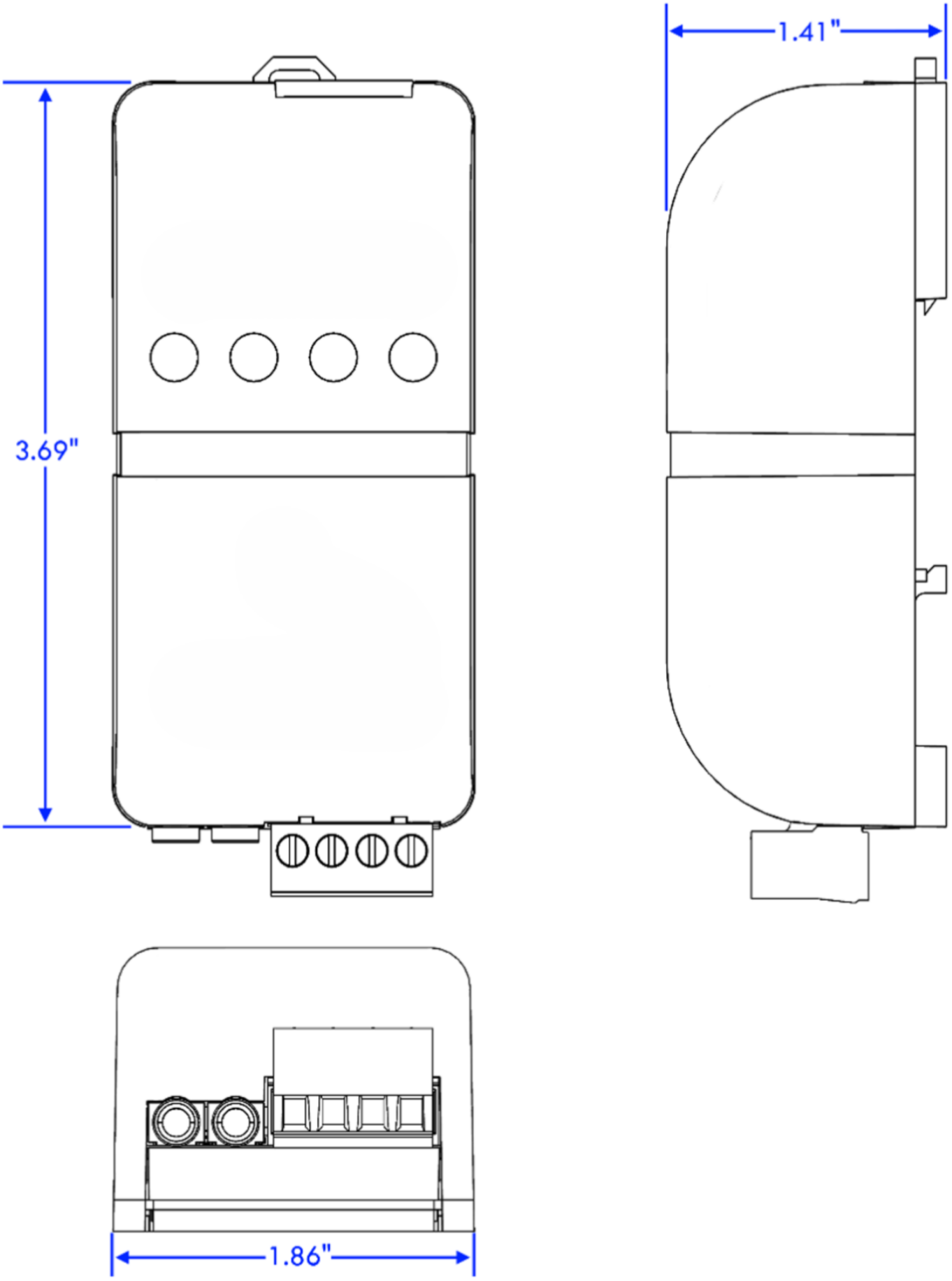
Alarm/Fault Actions

General alarms such as Power Loss, Comm. Fault, and Alarm Input are automatically reset by the Panel Link Bridge upon the clearing of the condition. Pump Alarms such as Max Run, High Amps, Low Amps, and Rapid Cycle are latched by the Panel Link Bridge and require an Alarm Reset or Clear Alert update from the web portal/app for the fault to condition to be reset after normal operation has been restroed. Cycling power to the Panel Link Bridge will also clear any latched fault or alarm condition.

Web Portal/App Updating

Approximate update time from live Panel Link Bridge data to web portal/app can change based on network or connectivity variances but are generally within one minute.

MOUNTING DIMENSIONS



NOTES

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Technical Support: +1 800-746-6287
techsupport@sjeinc.com
www.sjerhombus.com

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