

## Quick Installation Guide

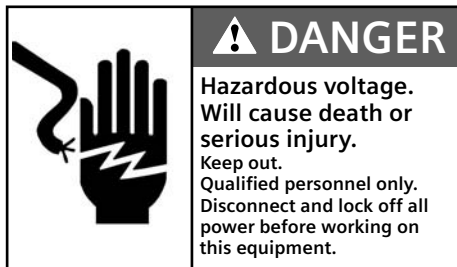


## i-3 Control Technology V2

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**SIEMENS**

# P1 Panel with i-3<sup>®</sup> Control Technology V2<sup>™</sup>



## Safety Precautions

(a) Only qualified persons familiar with the construction and operation of this equipment should perform work described in this set of instructions. Such work should be performed only after reading this complete set of instructions.

(b) Follow safety related work practices, as described in NFPA 70E at all times.

(c) Hazardous voltages in electrical equipment can cause severe personal injury or death. Energizing this equipment for the first time after initial installation or maintenance is potentially dangerous. Inspection and maintenance should be performed on this equipment and equipment to which power has been cut off, disconnected, and electrically isolated so that no accidental contact can be made with energized parts.

(d) Some types of electrical equipment will cause harmonics in the electrical system which may result in overheating. Consider this condition when determining this equipment loading, as possible de-rating of equipment may be necessary.

## Important

The information contained herein is general in nature and not intended for specific application purposes. It does not relieve the user of responsibility to use sound practices in application, installation, operation, and maintenance of the equipment purchased. Siemens reserves the right to make changes in the specifications shown herein or to make improvements at any time without notice or obligations. Should a conflict arise between the general information contained in this publication and the contents of drawings or supplementary material or both, the latter shall take precedence.

## Qualified Person

For the purpose of this manual and product labels, a qualified person is one who is familiar with the installation, construction, operation or maintenance of the equipment and the hazards involved. In addition, this person has the following qualifications:

(a) **is trained** and authorized to de-energize, clear, ground, and tag circuits and equipment in accordance with established safety practices.

(b) **is trained** in the correct care and use of protective equipment such as rubber gloves, hard hat, safety glasses or face shields, flash clothing, etc., in accordance with established safety practices.

(c) **is trained** in rendering first aid.

## Signal Words

The signal words “**Danger**,” “**Warning**” and “**Caution**” used in this manual indicate the degree of hazard that may be encountered by the user. These words are defined as:

**Danger** – Indicates an imminently hazardous situation which if not avoided, will result in death or serious injury.

**Warning** – Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

**Caution** – Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

## Dangerous Procedures

In addition to other procedures described in this manual as dangerous, user personnel must adhere to the following warnings:

(a) **Danger!** High Voltage. Qualified personnel only. Lock off all power to this equipment before working inside. Always work on de-energized equipment. Always de-energize equipment before performing any tests, maintenance or repair.

(b) **Warning!** Always perform maintenance on the interrupting device after the closing mechanism(s) are discharged.

(c) **Caution!** Always let an interlock device or safety mechanism perform its function without forcing or defeating the device.

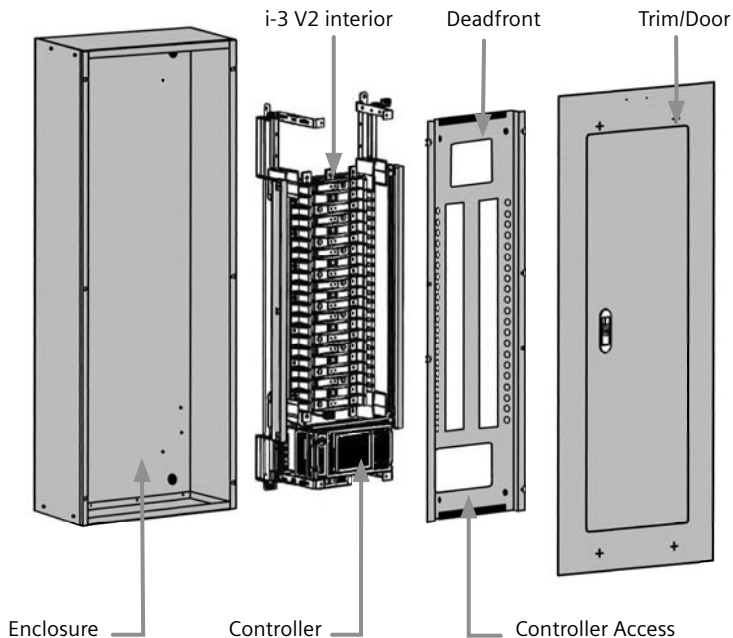
(d) **Caution!** Hydrocarbon spray propellants and hydrocarbon compounds will cause degradation of certain plastics. Contact your local Siemens representative before using these products to clean or lubricate components during installation or maintenance.

# Installation

## STEP 1

- De-energize the P1 Panel before starting the following steps. De-energizing must be done by a Qualified Electrician in accordance with the Safety precautions on page 2.
- Remove the trim/door from the P1 panel if they were factory installed.
- Remove the dead front from the i-3 V2 interior if it was factory installed.

**Note: There is no need to remove the interior.**

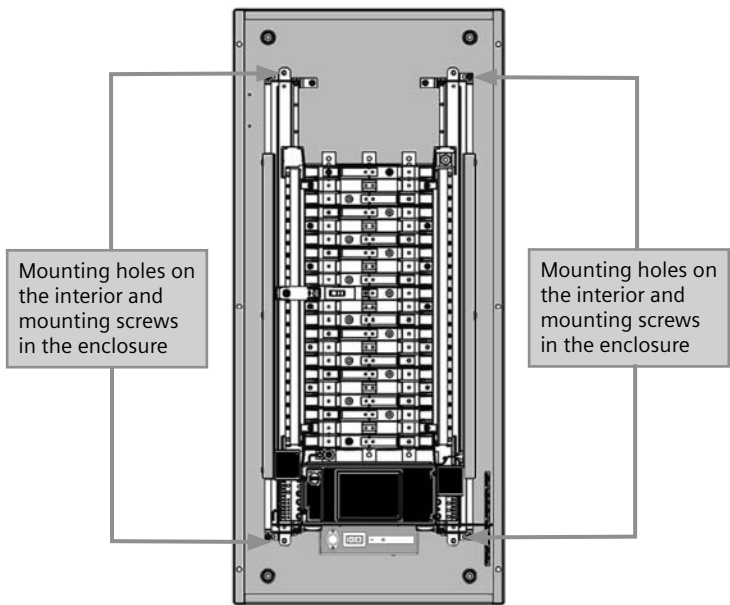


# Installation

STEP  
2

Install the i-3 V2 interior into the P1 panel enclosure if it was not factory installed.

The i-3 V2 interior is factory installed unless the P1 panel enclosure was shipped separately. (Cans Ahead).

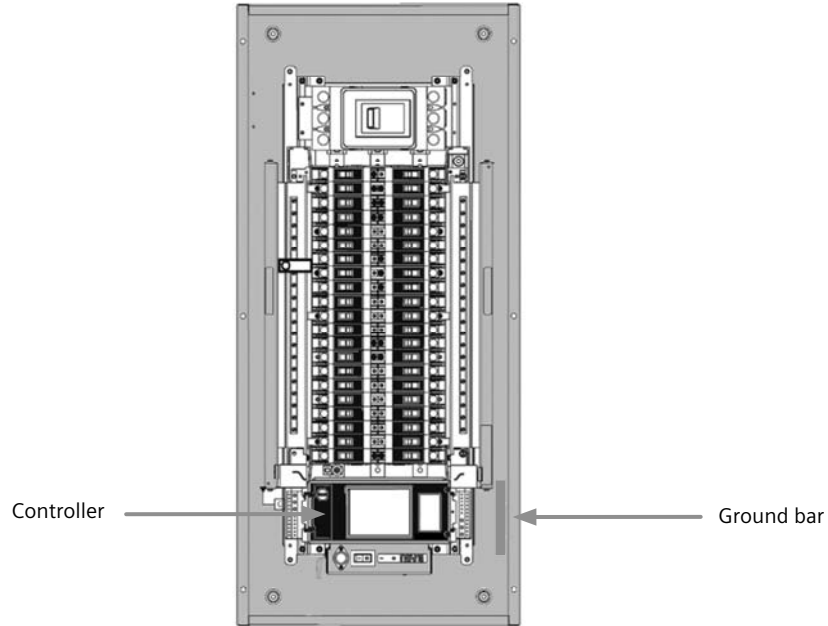


# Installation

STEP  
3

If not already connected (as in retrofit applications or if the panel enclosures were shipped separately from the i-3 V2 interior), make sure to correctly connect

the wires from the controller to the P1 Panelboard: red to terminal on "A" phase, white to neutral and green to the ground bar.

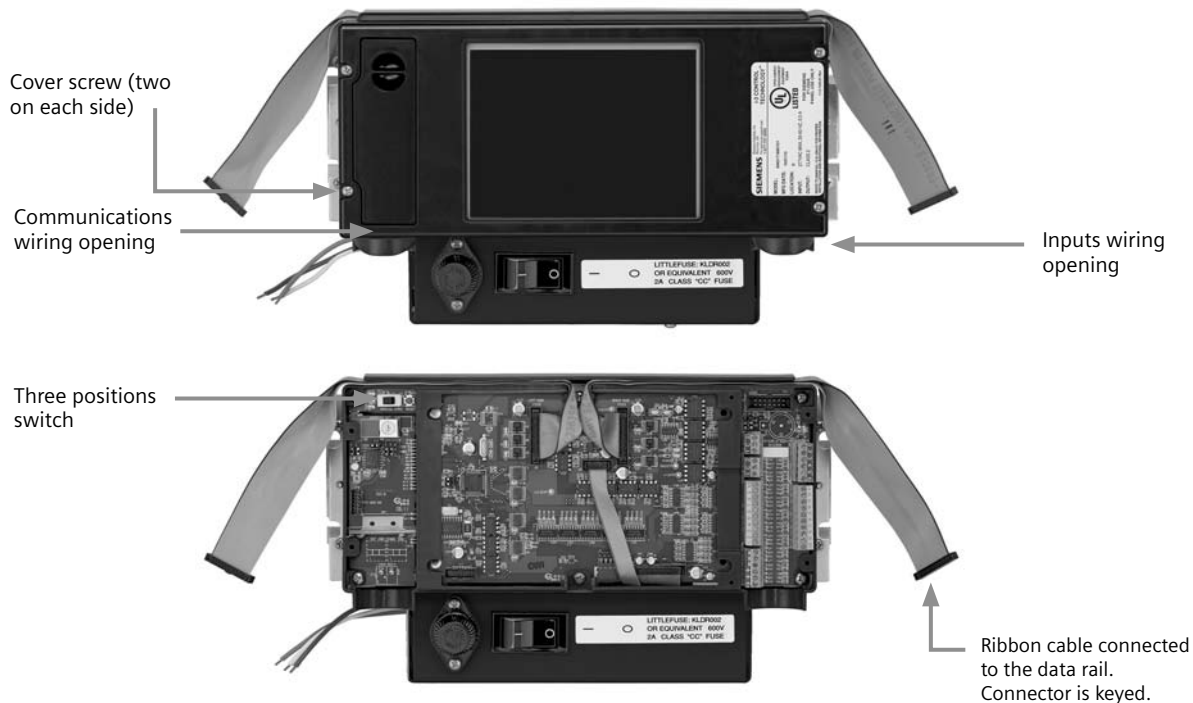


# Installation

## STEP 4

Remove the front cover from the controller (remove all four screws holding the cover in place). To insure the Controller enclosure is grounded properly

the Controller mounting brackets shall be connected to the mounting holes on the P1 panelboard chassis by way of (4) mounting screws.



# Installation

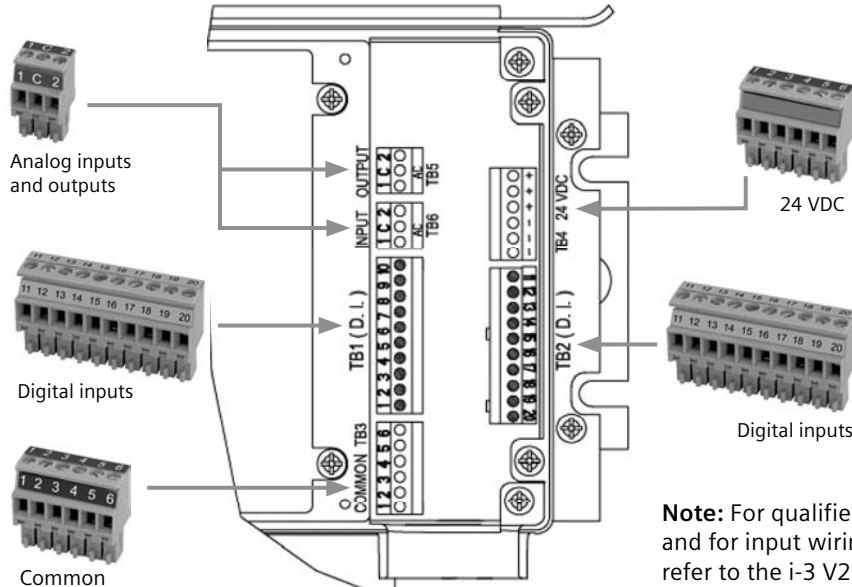
## STEP 5

- Wire the low voltage digital inputs, to the low voltage control terminals. (18 AWG stranded copper wire is recommended).
- Wire the analog inputs, to the analog inputs' control terminals. (18 AWG stranded copper wire is recommended).
- Wire the 24 VDC to the sensors which require this power.

- Reinstall the front cover of the I/O Controller or System Controller.

**Note:** The common connector has 6 positions, If there are more than 6 common wires brought into the panel, connect them together and bring one common into the controller.

### Input / output connectors



**Note:** For qualified input devices and for input wiring diagrams, refer to the i-3 V2 User Guides.

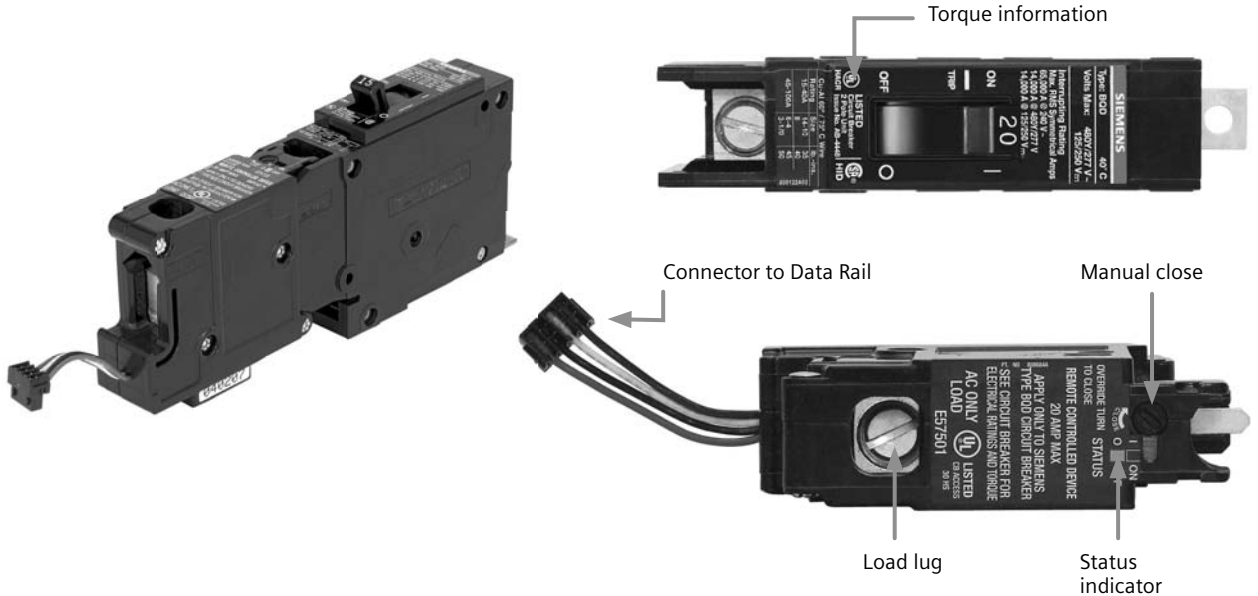
# Installation

**STEP**  
**6**

Connect the load wires to the SIPODs load lugs. For torque information, refer to the breaker rating label located on the face of the BQD breaker.

In accordance with Section 725.136 of the NEC® field-installed Class 2, Class 3, and other low voltage conductors shall be separated by a minimum 1/4 inch

from factory- or field-installed electric light, power, Class 1, non-power-limited fire alarm circuit conductors, and medium power network-powered broadband communications cables. Separation of conductors may be accomplished by clamping, routing, or an equivalent means.





# Installation

STEP  
7



- a. Install the dead front to the i-3 V2 interior.
- b. Install the trim/door to the P1 panel.
- c. **Make sure that all breakers are OFF before energizing.**
- d. Re-energize the P1 Panel. The energizing process must be done by a Qualified Electrician in accordance with the Safety precautions on page 2.
- e. The i-3 V2 system is ready for power and programming.

If you should need to close the SIPOD contacts, locate the circular windows on the dead front; then gently turn the Manual close clockwise until you hear a click and the position indicator flag turns black.

Do not force the mechanism. Do not attempt to open the SIPOD contacts manually; doing so will damage the SIPOD mechanism.



**CAUTION:** The Manual Close is used only to close the SIPOD contacts. Any attempt to use the Manual Close to open the contacts can cause permanent damage to the SIPOD mechanism. The SIPOD contacts can only be opened individually electronically from the system controller user interface, or the i-3 V2 I/O Configuration Software.



# Installation

## STEP 8

After the panel is energized; all SIPODS can be turned ON or OFF with the three position switch (ON-AUTO-OFF), the switch is located inside the controller behind

the communications section door (See Step 4). The AUTO position is for operation after the system has been programmed.



For additional and more detailed information; please refer to the P1 Series Lighting Panel with i-3 Technology V2 instructions manual.

It can be downloaded from the i-3 V2 Web page at [www.usa.siemens.com/i-3](http://www.usa.siemens.com/i-3)



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