

# Securitron® AQL4 Intelligent Power System

ASSA ABLOY

## Quick Start Guide

Experience a safer  
and more open world

### Overview

- 1 AC Voltage Select Jumper** – Leave INTACT for 120 V input. CUT for 230 V input.

**!** Failure to cut this jumper when using the Securitron AQL with a 230 VAC input will result in damage to the system.

- 2 AC Input primary AC connection.**
- 3 AC On LED (GREEN)** – Indicates a valid AC input voltage is present. Missing AC is indicated by this LED extinguishing.

**!** **WARNING:** Always confirm the absence of AC power with a meter before servicing to prevent electric shock.

- 4 Voltage Selection Jumper** – Selects the output voltage between 12 V and 24 VDC.

**!** **WARNING:** Remove AC input power before changing the voltage select switch to avoid damaging the power supply or connected equipment.

- 5 FAI LED (RED)** – Indicates activation of the Fire Alarm Input.
- 6 FlexIO Connector** – Supplies FAI status to any accessory boards. Receives fault signal from accessory boards.
- 7 FAI & Charge Current Configuration Switches**

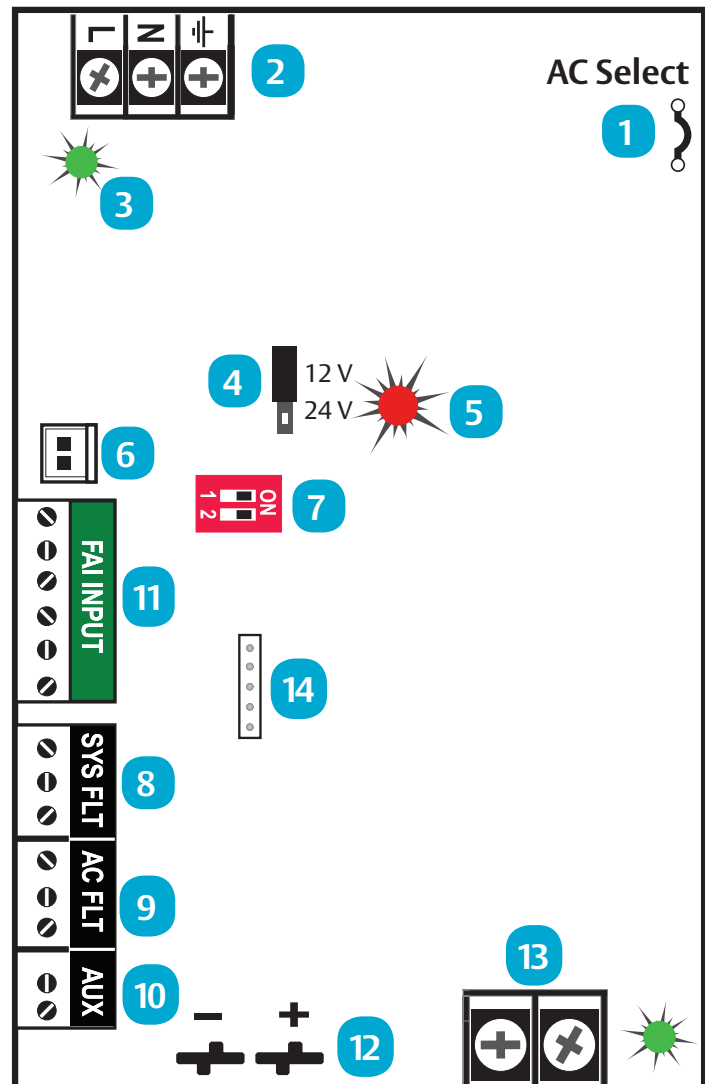
SWITCH 1 FAI Selection	SWITCH 2 Charge Current
OFF = Constant Output	OFF = High Charge Current
ON = Output switches on FAI	ON = Low Charge Current

- 8 System Fault Contact** – Contact labeling is adjacent to the terminals and shown in the unpowered (FAULT) condition.
- 9 AC Fault Contact** – Contact labeling is adjacent to the terminals and shown in the unpowered (FAULT) condition. AC fault is indicated on a missing AC Input voltage.
- 10 Auxiliary Voltage** – A fixed Class 2 DC output.
- 11 FAI Input** – The input from the FACP. Can be wired to accept a NO, NC, Open Collector, or Voltage input.
- 12 Battery Terminal Connection** – For the optional battery backup. Battery set voltage must match the DC output voltage setting.
- 13 Main DC Output** – Of the power supply. The output can either be constant or switched based on the configuration setting of Switch 1.

**!** **NOTE:** The DC ON LED will be green with voltage present, if set to 12 VDC or blue if set to 24 VDC.

- 14 DataLink Connection** – This connector allows optional programming and monitoring of the Securitron AQL power supply via an optional NetLink network module. See the instructions for the Netlink module for more information.

Specifications and more details  
found in the full manual here.  
(Downloadable pdf)



**!** Observe battery polarity or damage may result

**!** For UL compliance, the AC fault contact must be monitored by a listed control panel

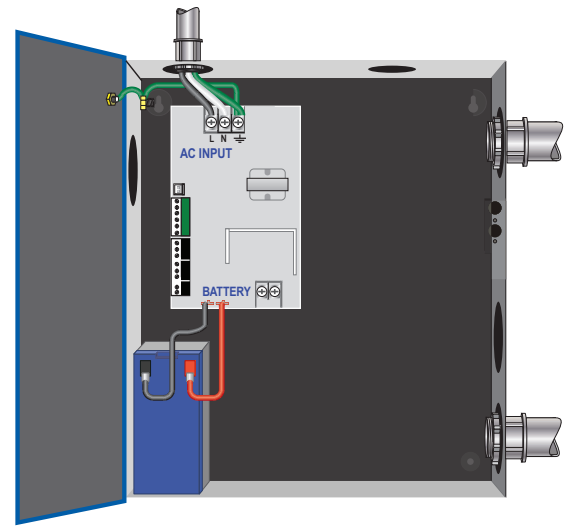


# Typical Installation & Wire Routing

Actual configuration and wire routing will vary based on the components installed in your system.

The following guidelines should be followed for installation:

- Class 2 Power limited wiring must be separated from nonpower limited wiring by a minimum of 1/4" and must use separate knockouts.
- Any wiring passing through knockouts in the bottom or top surfaces of the enclosure must be enclosed in rigid or flexible metal conduit.
- **Canadian Installations** – For permanently connected equipment, a readily accessible disconnect device shall be incorporated external to the equipment. Output circuits not connected to removable terminal strips shall also utilize a readily accessible disconnect device.



## Mounting Power Boards to the Enclosure

Mounting a Securitron Intelligent Power Board to an enclosure is via the four snap-in standoffs supplied.

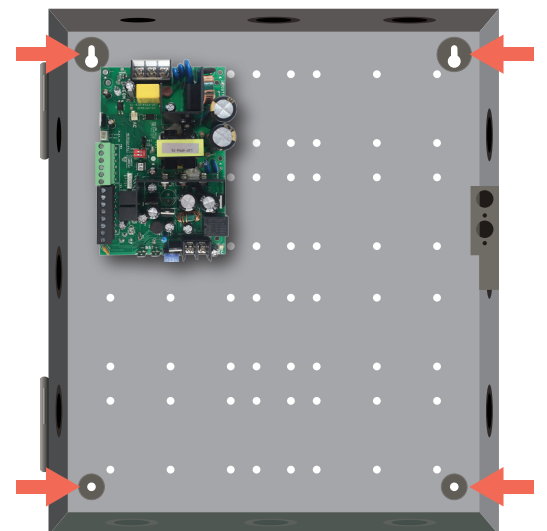
- 1 Locate the appropriate mounting holes in the enclosure and snap the standoffs into the holes.
- 2 Align the board mounting holes with the standoffs (be sure the PC board is properly oriented) and snap the board onto the standoffs.



## Mounting an Enclosure to a Wall

Use the following procedure when mounting a wall-mount enclosure.

- 1 (Optional) Remove the enclosure's cover.
- 2 Locate the top keyhole mounting holes in the back of the enclosure.
- 3 Mark and pre-drill the locations for the keyholes in the mounting surface.
- 4 Partially install two fasteners appropriate for the surface on which the enclosure is being installed. Leave the heads of the fasteners approximately 1/4" out from the surface. Minimum fastener size should be #10 or larger.
- 5 Hang the enclosure on the two fasteners and mark the locations of the remaining mounting holes.
- 6 Remove the enclosure and pre-drill the locations for the remaining mounting holes.
- 7 Re-hang the enclosure on the top mounting fasteners, start the remaining fasteners and tighten all fasteners.
- 8 Reinstall the enclosure's cover, if removed in step 1.



It is the installer's responsibility to determine the appropriate fastening system for use with the surface the enclosure is being mounted to. For UL1076 applications, after installation is complete, the installer must install the two supplied 1" long screws to the edge of the enclosure's cover for additional security.