

# Ins-30043-US I/O board with 2A/12V DC boxed power supply



## Technical Support

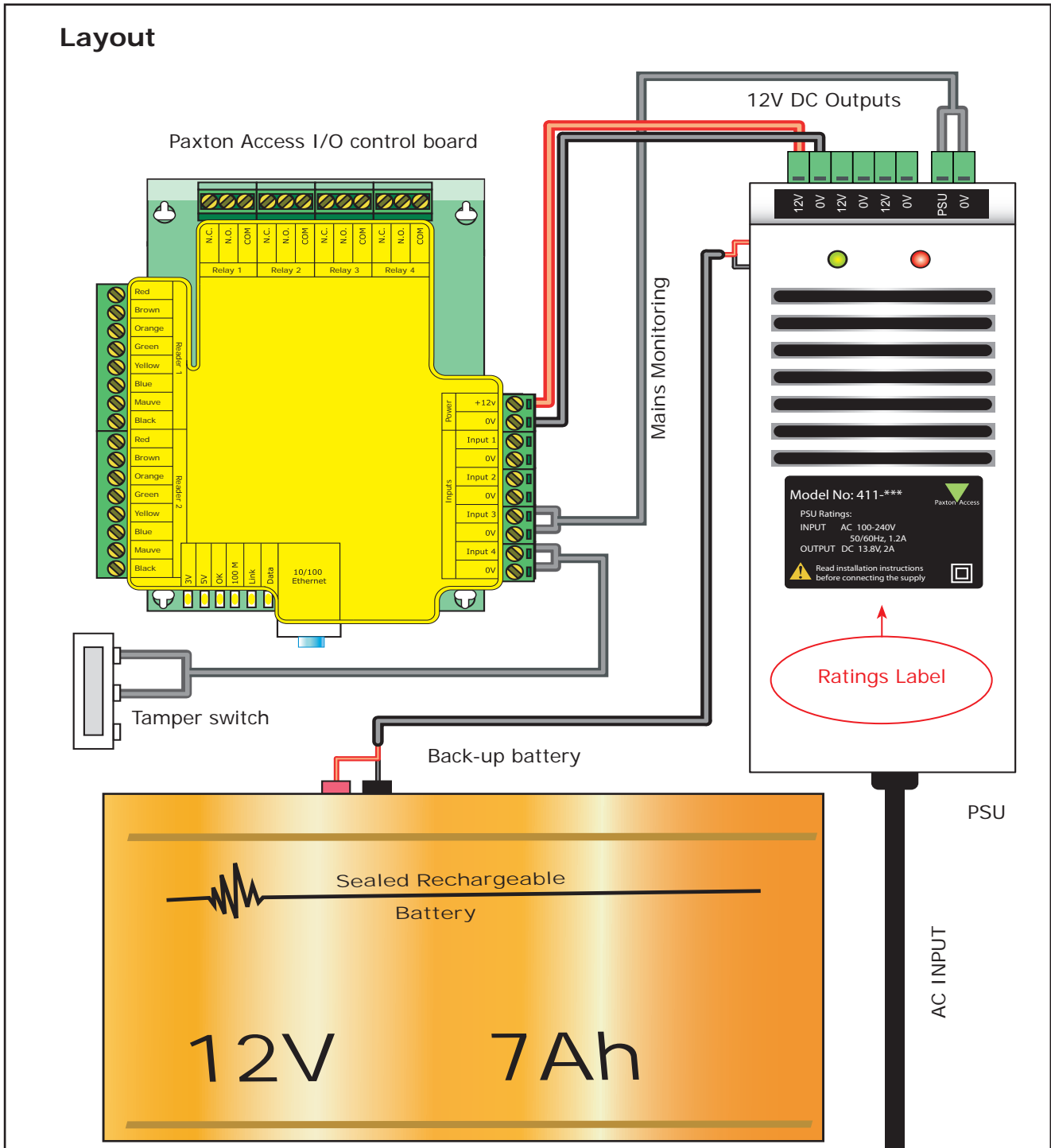
1.800.672.7298

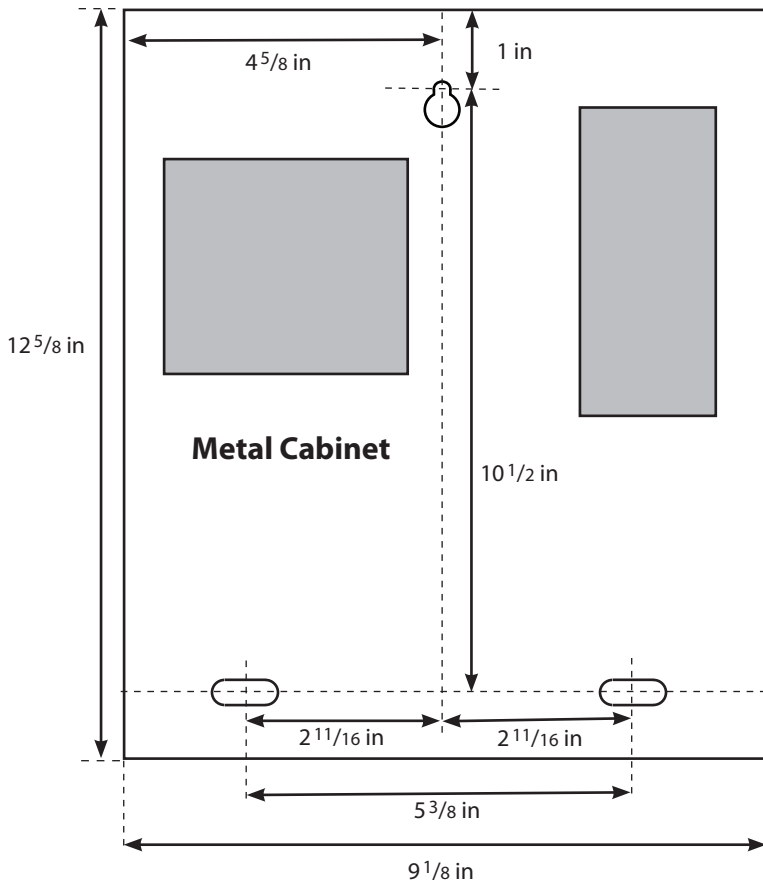
supportUS@paxton-access.com

Technical help is available: Monday - Friday from 02:00 AM - 8:00 PM (EST)

Documentation on all Paxton products can be found on our web site - <http://www.paxton-access.com/>

## Layout





## Mounting

1. Screws and wall plugs are provided in a parts kit. With reference to the diagrams, determine where the top, central mounting hole is required and drill a hole suitable for a No 8 wall plug.
2. Tap in one of the wall plugs.
3. Put in one of the long screws, leaving a suitable gap to the wall surface in order to slot the cabinet over it.
4. Mark the hole positions for the lower 2 screws.
5. Remove the cabinet and drill the additional holes.
6. Tap in the 2 wall plugs and hang the cabinet back onto the top screw.
7. Secure the cabinet with the 2 lower screws.
8. Tighten the top screw.

This product is not suitable for retail sale. All warranties are invalid if this product is not installed by a trained technician.

## AC Input Connection

A detachable figure 8 power cable is provided with the unit. This is pre-stripped at one end for connection to a fused spur.

Anchor points are supplied inside the case to secure the incoming 110V supply cable. (cable tidy/ties are provided) There are also 'knock-outs' in the case to allow convenient access for the cable.

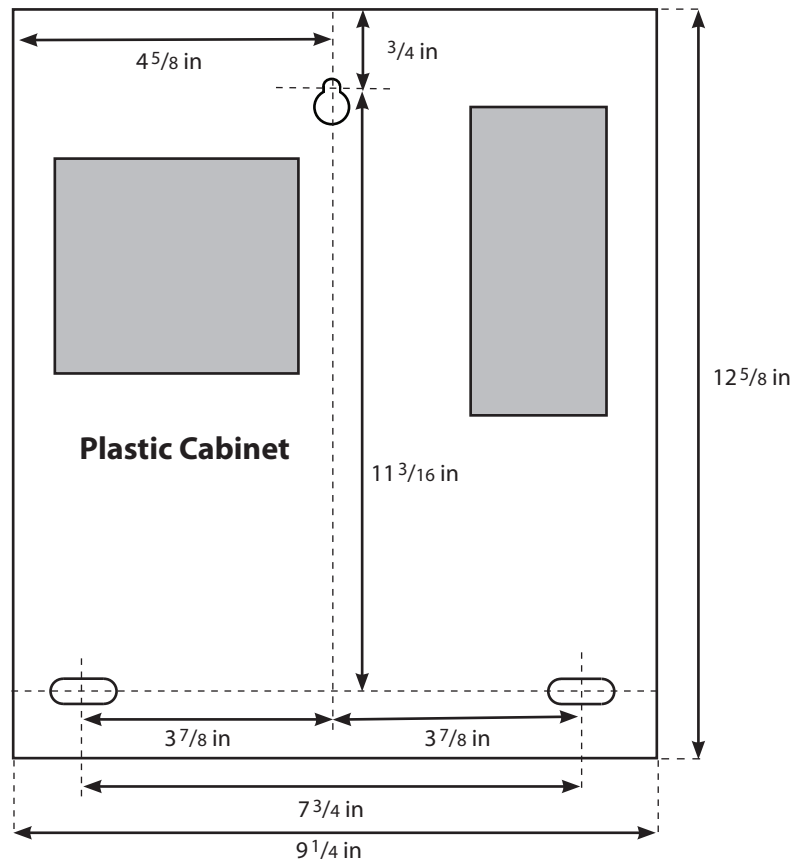
Use the supplied gland or grommet to protect the 110V supply cable when passing it through any holes in the cabinet.

The power supply is double insulated and requires no additional earth connection.

NOTE: The PSU's battery function will not work until this unit has first been connected to the mains supply. It is the loss of this supply that switches the unit to battery power.

## FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



## Status Lights

Green	This LED is on when the input supply is healthy.
Red	This LED is on when the input supply has failed - Power is being supplied by the battery.

## Features

Battery backup	The cabinet can accommodate a 12V / 7Ah battery.
Fast/Trickle charge	The battery is continuously charged to keep it at maximum capacity.
Deep discharge protection	If battery voltage falls below 9.5V, it will automatically disconnect - Red Led goes out
AC supply failure (PSU)	Registers an alarm if the AC input power fails when connected to an ACU or I/O board.
Tamper alarm	Registers an alarm if the lid is opened when connected to an ACU or I/O board.

## Specifications

Environment	Min	Max	
Operating temperatures - all items	-20 °C (-4 °F)	+45 °C (+113 °F)	
PSU Electrical	Min	Max	
Output voltage	13V DC	13.8V DC	
Maximum load output current		2A	
Maximum battery charging current		1A	
Input supply voltage	100V AC	240V AC	+/- 10%
Input supply current		1.2A	
Input supply frequency	50Hz	60Hz	+/- 3Hz
I/O Electrical	Min	Max	
Relay inputs		4	
Relay outputs		4	
Relay voltage rating		240V AC	
Relay current rating		13 A	
Relay contact isolation		4 kV AC	
Current		* 400 mA	
*Note: This max value is for when all four relays are energised			
Dimensions	Width	Height	Depth
Metal Cabinet	9 1/8 in	12 5/8 in	3 1/8 in
Plastic Cabinet	9 1/4 in	12 5/8 in	3 1/8 in
Battery Compartment (Plastic Housing)	5 7/8 in	3 7/8 in	2 1/2 in

## WARNINGS

**The following warnings and instructions MUST be adhered to. Read the instructions before installing and powering the equipment. Keep the instructions in a safe place for future reference.**

**RECEIVING INSPECTION-** Remove any traces of packing material from the unit as such debris may create a fire or shock hazard. Unpack the unit with care and inspect for transit damage. If damage is suspected, the unit must not be used or tested, but should be returned to Paxton for investigation and the damage reported to the carrier.

**INSTALLATION-** Only qualified and trained personnel, familiar with this type of product and who fully understand these instructions should install, connect or test this equipment. There are no user serviceable parts within the PSU unit.

- The equipment is intended for indoor use only in dry locations. This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

- The installation must meet National Wiring Regulations and IEC60950-1 standards.

- Disconnect Devices: A readily accessible disconnect device shall be incorporated in the building wiring to include an appropriately rated circuit breaker to disconnect both poles with at least a 3.0 mm contact gap. After switch off, all internal capacitors will discharge to safe levels within 60 seconds under normal conditions. Under fault conditions, charge may be held for much longer and suitable precautions should be taken before handling the unit.

- Protection device: The fusing characteristics of the protection device to be used are T3.15AH250V.