

**Technical Support**

☎ 1.800.672.7298

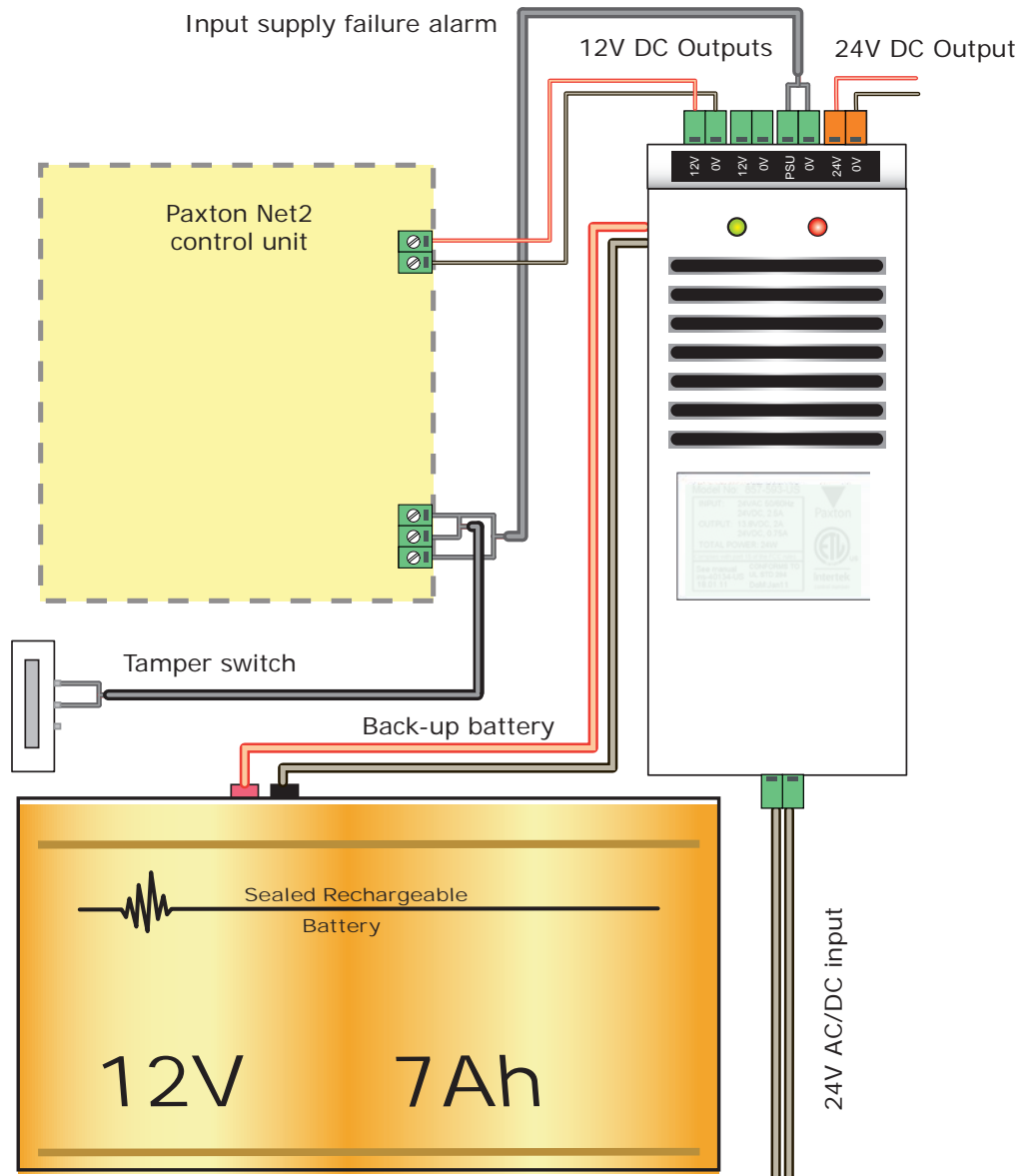
✉ [supportUS@paxton-access.com](mailto:supportUS@paxton-access.com)

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/>

For instructions in alternative languages - <http://paxton.info/1000>

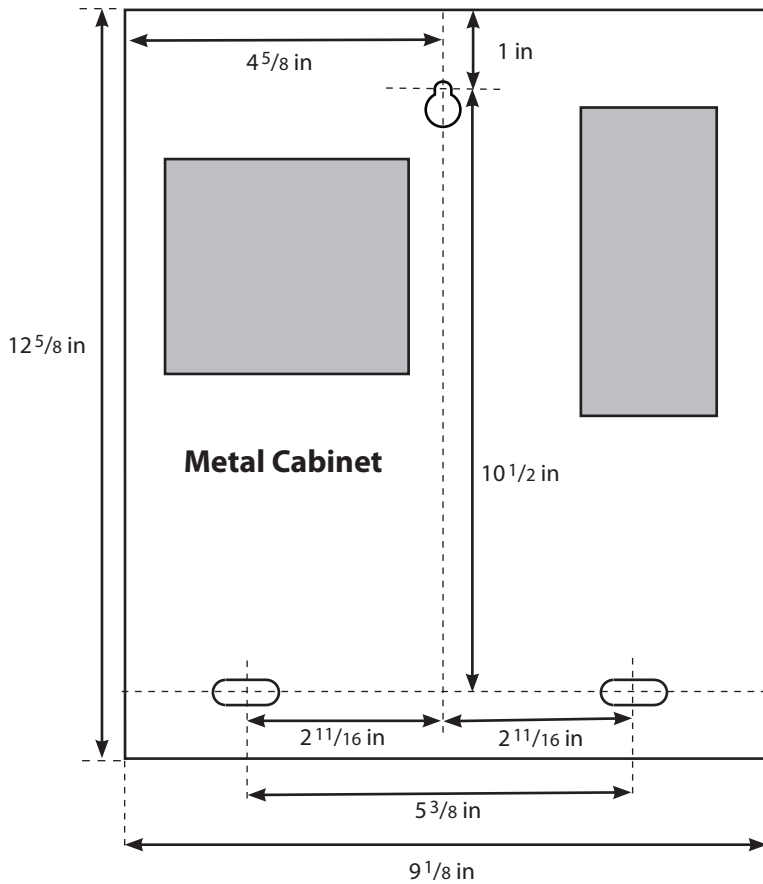
**Layout**



Input power must be supplied via a separately listed, class 2, plug-in transformer or access control power supply (not provided as part of this product). The power supply must be listed to UL 294 or must be installed with a listed surge protection device if listed to another standard. This unit has provision for a standby battery (not included).

**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.



## 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.

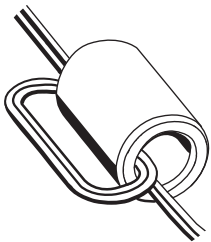
This product is not suitable for retail sale. All warranties are invalid if this product is not installed by a trained technician.

## Input Connection

Anchor points are supplied inside the case to secure the incoming supply cable. There are also 'knock-outs' in the case to allow convenient access for the cable.

Ensure that the supplied gland or grommet is used when passing the input power cable through any holes in the cabinet.

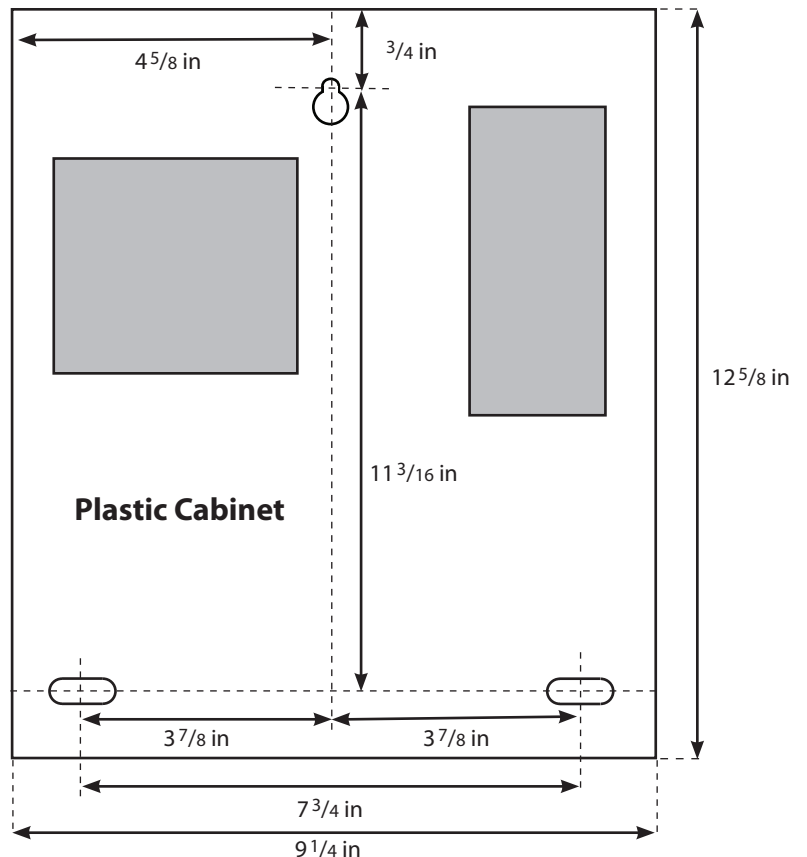
The battery backup function will not work until this unit has first been connected to the input supply. It is the loss of this supply that switches the unit to battery power.



The input cable must be passed around the supplied Ferrite core.

This should be fitted within 2 inches of the connection with the power supply.

A Net2 nano ACU or a Hands free interface cannot be installed in the Metal cabinet as this would block the RF signal used for the Net2Air wireless technology.



## Maintenance

Following the completed installation of this equipment, no further maintenance or testing is required.

It is advisable to ensure that any third party backup power supplies or recovery procedures are checked regularly to ensure that the operation of the Paxton system is not compromised.

Parts kit		
Part Number	Qty	Description
Fitting Kit fk1-108	1	Ferrite tube
	1	Grommet, 22mm hole
	3	Wall plugs
	3	Pozi round woodscrew - zinc
	1	Pozi panhead lid screw
	1	Rubber washer
	1	Cable gland
	1	Cable gland lock nut
	4	Cable clip
	10	Cable tie
	1	1N4001 diode
Fitting Kit fk1-039	4	120 ohm Resistor 1/4W
	2	Cable tie

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
Input supply failure (PSU)	Registers an alarm if the 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			
PSU Electrical	Min	Max	
12V Output voltage		13.8V DC	
24V Output voltage		24V DC	
Maximum 12V DC load output current		2A	
Maximum 24V DC load output current		0.75A	
Total power out (combined outputs)		24W	
Maximum battery charging current		0.5A	
Maximum battery life at full load (2A)		3.5 hours	
Input supply voltage		24V AC or DC	
Input supply current		2.3A	
Input supply frequency	50Hz	60Hz	
ACU Electrical			
See accompanying documentation ( ins-40000-US Net2 classic, ins-40075-US Net2 nano, ins-40080-US Net2 plus )			
Environment	Min	Max	
Operating temperatures - all items	0 °C (32 °F)	49 °C (+120 °F)	
Waterproof			No
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.

## 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.

Class B digital devices.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Class A digital devices.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## Product compliance and limitations

Wiring methods shall be in accordance with the National Electrical Code (ANSI/NFPA70), local codes, and the authorities having jurisdiction.

For CAN/ULC-S319 installations, terminals, leads and wiring methods must comply with CSA, C22.1, Canadian electrical code, Part 1, safety standards for electrical installations.

The use of any add-on, expansion, memory or other module manufactured or supplied by the manufacturer's representative will invalidate the CAN/ULC-S319 certification.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.