Altronix®

StrikeIt™2

Panic Device Power Controller

Installation Guide

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Overview:

StrikeIt2 operates one (1) 24VDC panic hardware device. It is designed to handle the high current surge panic hardware locking devices demand. In addition, an auxiliary power output provides power for accessory devices such as card readers, keypads, REX PIRs, electronic timers, relays, etc.

Specifications:

Agency Approval:
- UL Listed for Access Control System Units (UL 294).
- CUL Listed - CSA Standard C22.2 No.205-M1983, Signal Equipment.

Input:
- Input 115VAC 60Hz, 7 amp.
- One (1) NO trigger input.

Outputs:
- One (1) 23.2-24VDC lock output rated up to 16 amp for 300ms, 0.5 amp continuous hold current.*
- One (1) 23.2-24VDC filtered regulated auxiliary output rated @ 0.5 amp continuous supply current*
  *Note: Total combined current for the outputs may not exceed 1 amp.

Battery Backup:
- Built-in charger for sealed lead acid or gel type batteries.
- Automatic switch over to stand-by battery when AC fails.
- Maximum charge current .3 amp.
- When 4AH batteries are used, battery capacity for emergency stand-by is at least a 1/2 hour.

Visual Indicators:
- Green AC Power LED indicates 115VAC present.
- Red LED indicates presence of 24VDC.

Enclosure Dimensions:
8.5"H x 7.5"W x 3.5"D

Installation Instructions:

Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/NFPA 72/ANSI, and with all local codes and authorities having jurisdiction. Product is intended for indoor use only.

1. Mount unit in desired location within protected premises *(Maximum Wiring Distance Table, pg. 5)*. Mark and predrill holes in the wall to line up with the top two keyholes in the enclosure. Install two upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two upper screws, level and secure. Mark the position of the lower two holes. Remove the enclosure. Drill the lower holes and install the two fasteners. Place the enclosure's upper keyholes over the two upper screws. Install the two lower screws and make sure to tighten all screws *(Enclosure Dimensions, pg. 7)*. Secure cabinet to earth ground.
2. Connect AC power (115VAC 60Hz) to terminals marked [L, G, N] *(Fig. 1, pg. 5 & Fig. 2, pg. 6)*. The AC LED (Green) will illuminate indicating power is present.
3. Measure output voltage at terminals marked [– AUX +] and [– OUT +] before connecting devices *(Fig. 1, pg. 5 & Fig. 2b, pg. 6)*. This helps avoid potential damage. Note: Some voltage may be present on the output. When the unit is not triggered load is not connected.
4. Connect 24VDC panic hardware device to terminals marked [– OUT +] *(Fig. 1, pg. 5 & Figs. 2 & 2b, pg. 6)*. Be sure to observe polarity.
5. Connect Normally Open [NO] Dry Contacts from actuating devices such as an Access Control Panel, REX PIR, Keypad, etc. to terminals marked [GND, NO] *(Fig. 1, pg. 5 & Fig. 2b, pg. 6)*.
6. Connect auxiliary devices to be powered (Keypads, REX motion detectors, electronic timers, external relays) to the auxiliary power output terminals marked [– AUX +] *(Fig. 1, pg. 5 & Fig. 2b, pg. 6)*.
7. When using stand-by batteries, they must be lead acid or gel type. 4AH batteries will provide a 1/2 hour of backup time. Connect two (2) 12VDC batteries wired in series to the terminals marked [– BAT +]. For Access Control applications batteries are optional. When batteries are not used a loss of AC will result in the loss of output voltage *(Fig. 2b, pg. 5)*.
8. Mount U.L. Listed tamper switch (Sentrol model 3012 or equivalent) at the top of the enclosure. Slide the tamper switch bracket onto the edge of the enclosure approximately 2" from the right side *(Fig. 2a, pg. 6)*. Connect tamper switch wiring to the Access Control Panel input or the appropriate U.L. Listed reporting device. To activate alarm signal open the door of the enclosure.
9. Upon completion of wiring secure enclosure door with screws or cam lock.

LED Diagnostics:

LED	LED Status	Panic Device Power Controller Status
AC Power Green	On	Normal operating condition.
	Off	Loss of AC.
Red	On	24VDC output operating normal condition.
	Off	24VDC output is not operational.

Maintenance:

Unit should be tested at least once a year for the proper operation as follows:

Output Voltage Test: Under normal load conditions the DC output voltage should be checked for proper voltage level.

Battery Test: Under normal load conditions check that the battery is fully charged, check specified voltage both at battery terminal and at the board terminals marked [– BAT +] to insure there is no break in the battery connection wires.

Note: Maximum charging current under discharge is 300mA.

Note: Expected battery life is 5 years, however it is recommended changing batteries in 4 years or less if needed.
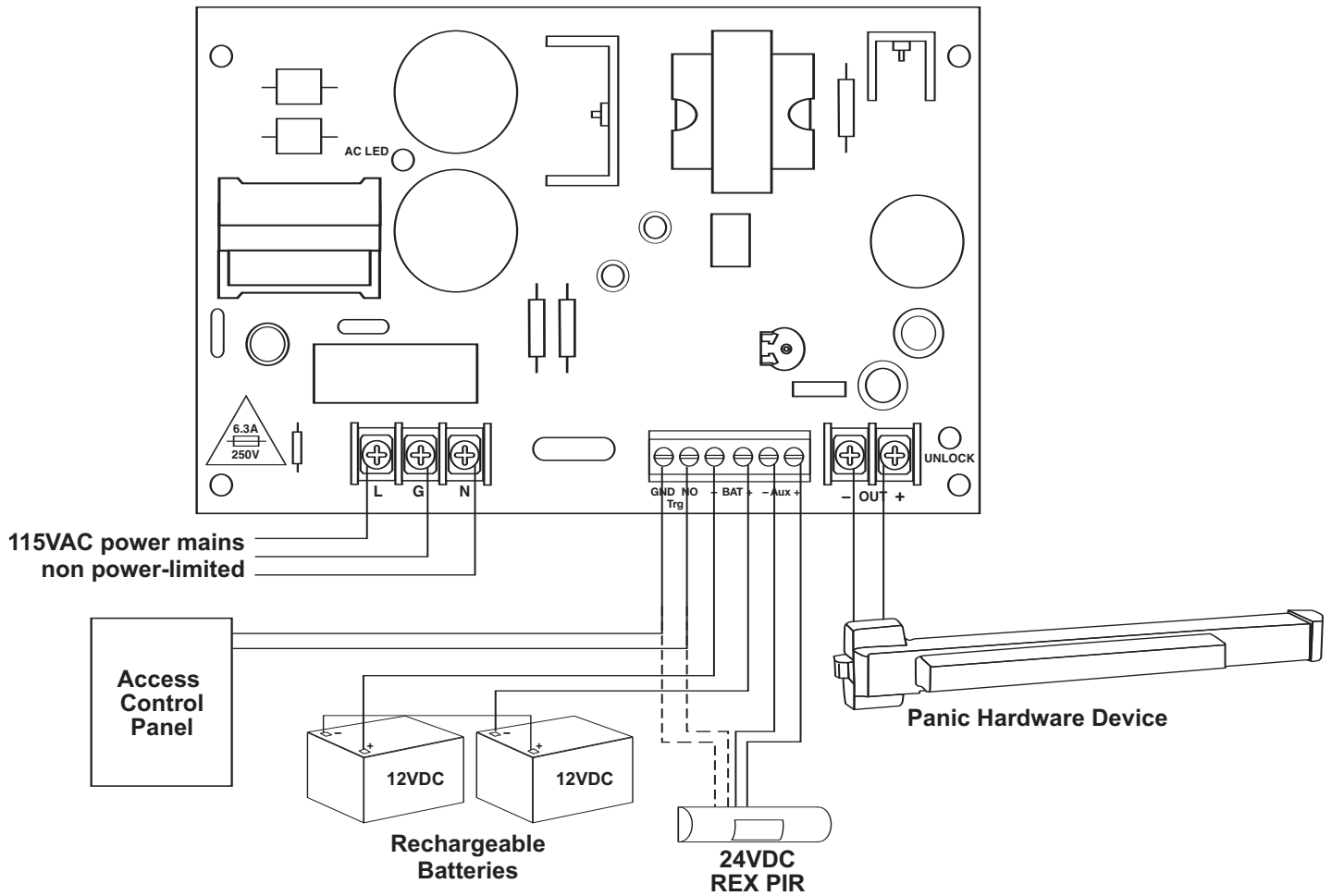
Caution: For continuous protection against risk of electric shock and fire hazard, replace input fuse with the same type and rating 6.3 amp/250V. Do not expose to rain or moisture, indoor use only.

Terminal Identification:

Terminal Legend	Function/Description
– AUX +	23.2-24VDC Auxiliary Output @ 0.5 amp.
– BAT +	23.2-24VDC Stand-by Battery Connection (Two (2) 12VDC batteries wired in series).
– OUT +	Connect 24VDC Panic Hardware Device, up to 16 amp 300 ms., .5 amp on hold.
GND / NO	Normally Open [NO] trigger input controls output. A maintained contact closure will extend the unlock period.

Fig. 1

Typical Application Diagram:

AC LED

**6.3A
250V**

L G N

GND NO − BAT + − Aux +   − OUT +
Trg   **UNLOCK**

**115VAC power mains
non power-limited**

**Access
Control
Panel**

12VDC   **12VDC**

**Rechargeable
Batteries**

**24VDC
REX PIR**

Panic Hardware Device

Wiring Distance Table:

InRush Current	Wire Gauge	Electric Butt or Pivot Max distance from Power Supply to frame side of opening	EPT Max distance from Power Supply to frame side of opening
8 amp	14 AWG Stranded	75 ft.	100 ft.
8 amp	12 AWG Stranded	175 ft.	200 ft.
12 amp	14 AWG Stranded	60 ft.	75 ft.
12 amp	12 AWG Stranded	80 ft.	100 ft.
16 amp	14 AWG Stranded	40 ft.	75 ft.
16 amp	12 AWG Stranded	60 ft.	80 ft.

Fig. 2

CAUTION: De-energize unit prior to servicing. For continued protection against risk of electric shock and fire hazard replace main fuse with the same type and rating 6.3A/250V. Do not expose to rain or moisture.
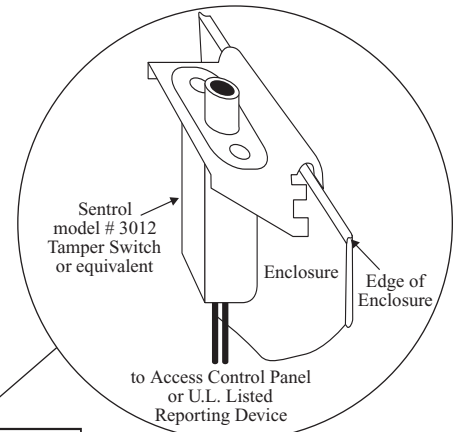
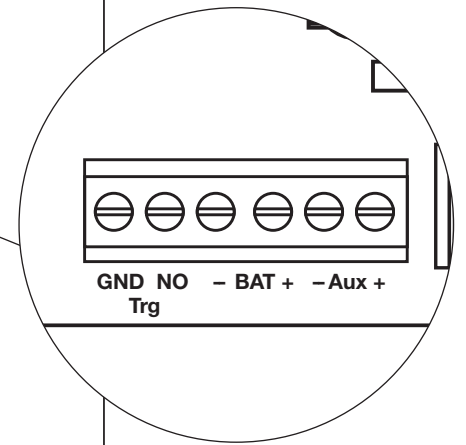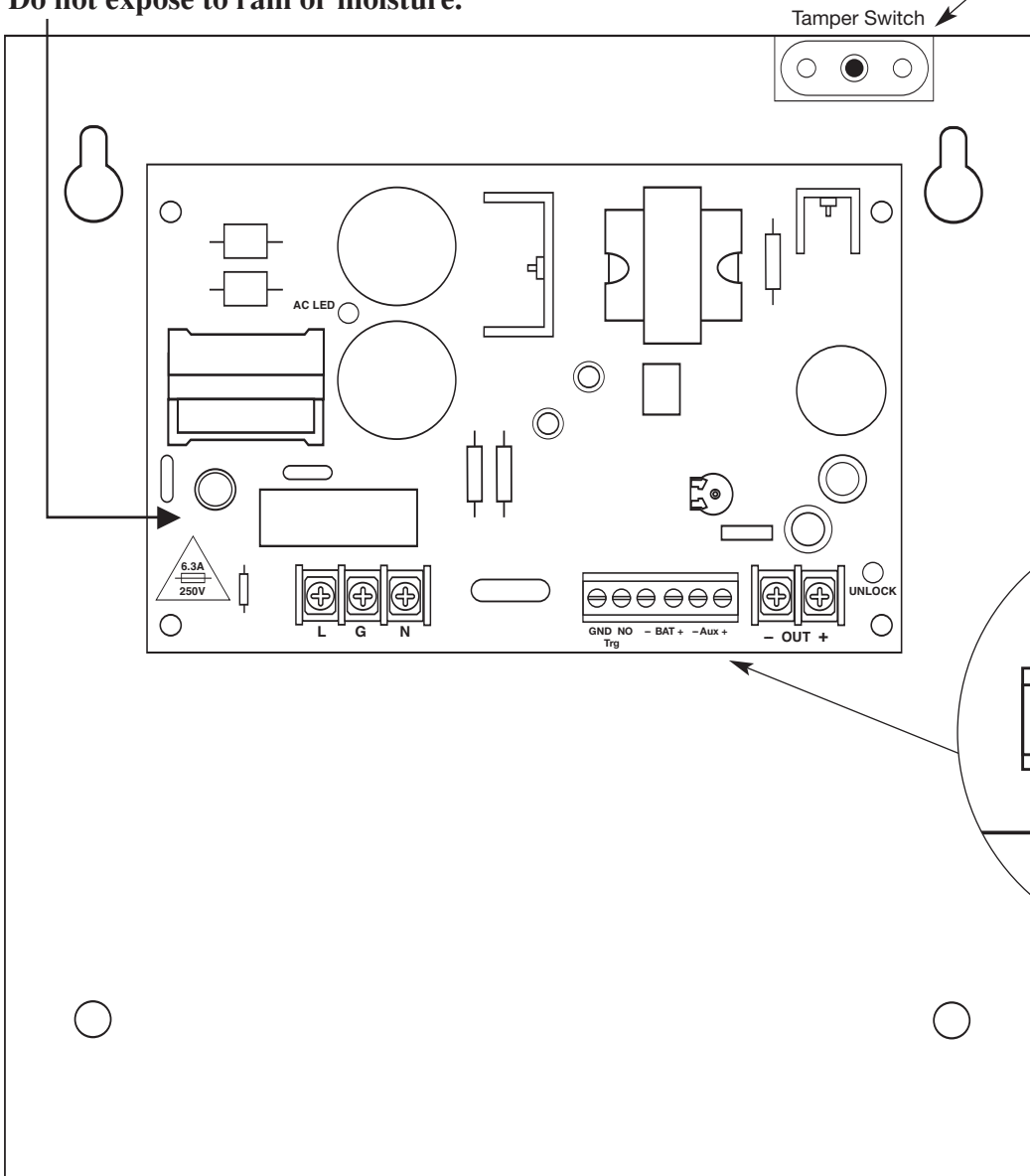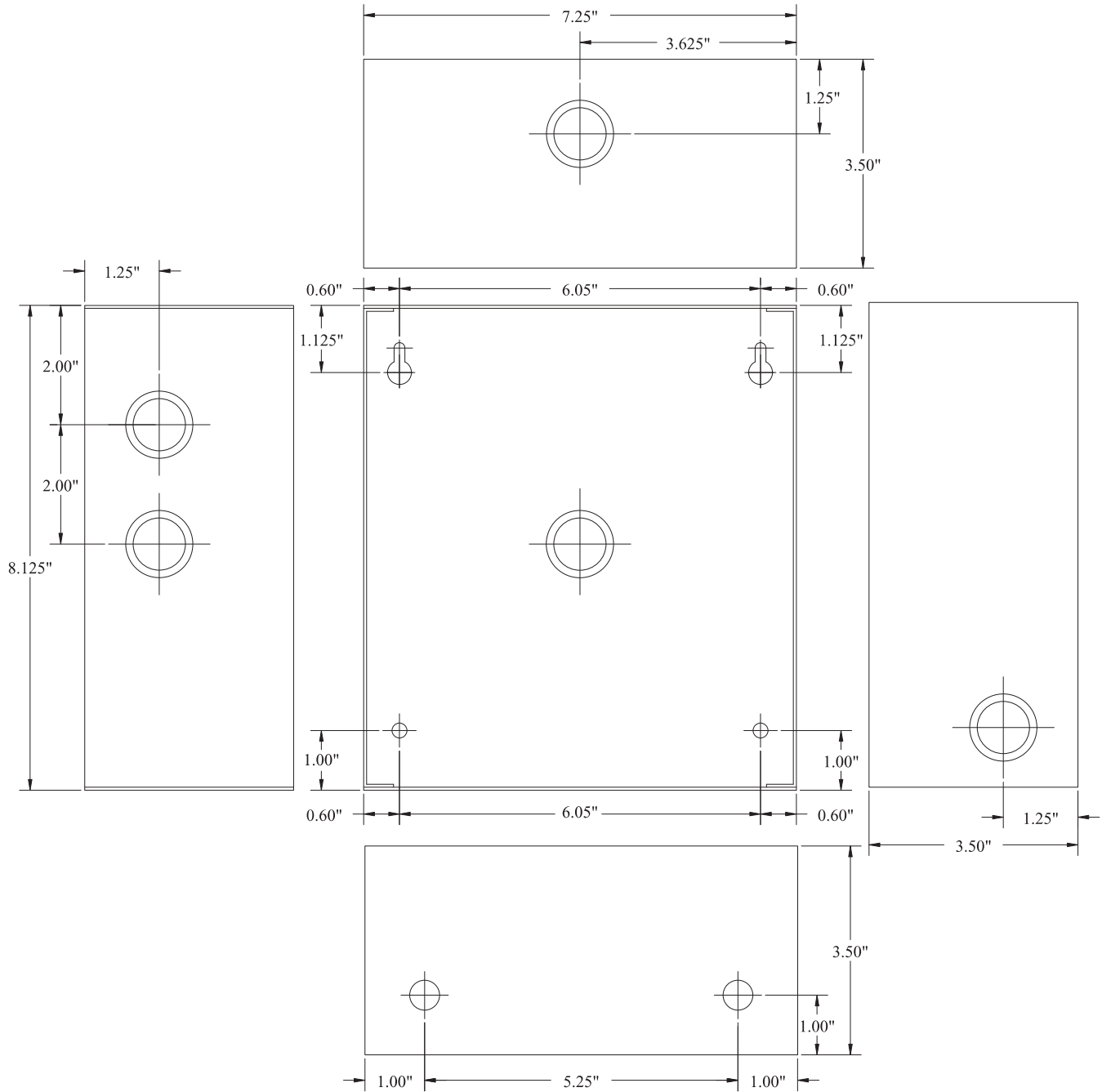Sentrol model # 3012 Tamper Switch or equivalent

Enclosure

Edge of Enclosure

to Access Control Panel or U.L. Listed Reporting Device

Fig. 2a

Tamper Switch

AC LED

6.3A 250V

L   G   N

GND NO   − BAT +   −Aux +
Trg

− OUT +

UNLOCK

GND NO   − BAT +   −Aux +
Trg

Fig. 2b

Enclosure Dimensions:

8.5"H x 7.5"W x 3.5"D

Notes:

MEMBER