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GENERAL

The **Fire**•Lite **FCPS**-2404 is a compact, cost-effective, NAC power expander. Its filtered 24 VDC output can provide up to 4.0 amps of current to drive one Style Y (Class B) NAC (Notification Appliance Circuit). The FACP's (Fire Alarm Control Panel) NAC is connected to the power expander's input circuit. When the control input circuit activates due to reverse polarity of the FACP's NAC, the power expander will activate its NAC circuit. The FCPS-2404 is compatible with 12 VDC and 24 VDC control panels.

FEATURES

- 4 amps total of continuous current available.
- One 24 VDC Style Y (Class B) NAC.
- One optically-isolated input/control circuit, compatible with 12 VDC and 24 VDC control panel.
- External Strobe Synchronization could be added with UL listed synch module, which can be housed in the FCPS-2404.
- Can be wired daisy-chain style.
- Self-contained in compact, lockable cabinet (15" [381 mm] H x 14.5" [368 mm] W x 3.050" [775 mm] D).
- Output is filtered and completely power limited.
- Integrated supervised battery charger for lead acid or gel type batteries.
- Uses only 7 AH (Amp Hour) batteries can be accomodated in the power supply cabinet.
- NAC supervised by host FACP
- Earth fault detection by host FACP.
- Fixed terminal blocks for field wiring capable of accepting 12 22 AWG wire.
- AC fail Form-C relay contacts (fail-safe).
- Battery/Charger trouble Form-C relay contacts (fail safe).
- Optional hardware kit #90273 to be used when installing addressable or synchronization modules.

LED INDICATORS

- AC power on (green) LED.
- Battery/Charger trouble (yellow) LED.

SPECIFICATIONS

Primary (AC) Power - TB1

- 120 VAC 50/60 Hz, 1.45 amps maximum.
- Wire size: minimum #14 AWG (2 mm²) with 600V insulation.

Control Input Circuit – TB3, Terminals 1 (+) & 2 (–) alarm polarity

- Trigger Input Voltage: 9 to 32 VDC.
- Input Current Draw in Alarm Polarity: 16 - 32 volts, 10 mA maximum.
 - 9 -16 volts, 4 mA maximum.

Fire•Lite® Alarms is a Honeywell company.

(800) 627-3473, Toll-Free FAX: (877) 699-4105.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact **Fire**-Lite Alarms, One Fire-Lite Place, Northford, Connecticut 06472. Phone:

ISO 9001 ENGINEERING & MANUFACTURING O U A LI TY SYSTEMS

FCPS-2404 24 Volt, 4 Amp NAC Power Expander

Section: Power Supplies/Accessories

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California State Fire Marshal 7315-0075:197

DF-52202 • D-110



FCPS-2404

Important: Do <u>not</u> use shielded wire for Control Input Circuit.

NAC Output Circuit – TB3, Terminals 3 (+) & 4 (–) alarm polarity

- Voltage Rating: 24 VDC.
- Current: 4 amps maximum total continuous current.
- Style Y (Class B) requires End-of-Line Resistor from circuit connected to input.
- Refer to *Fire*•*Lite Device Compatibility Document* for listed compatible devices.

Important: Do <u>not</u> use shielded wire for NAC Output Circuit.

AC Fail Relay Contact Rating – TB6

- Fail-safe relay (normally energized, transfers with loss of power).
- 1 amp @ 30 VDC.

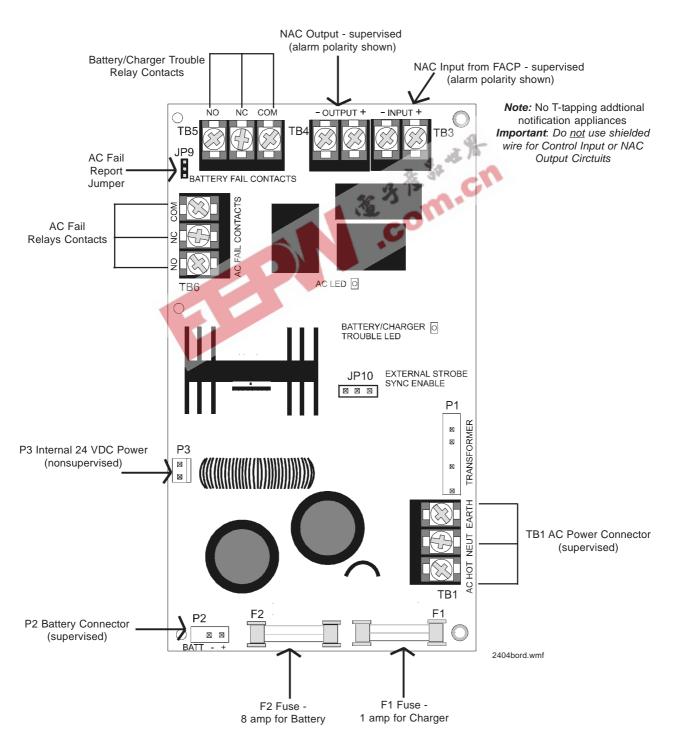
Battery/ChargerTrouble Contact Rating – TB5

- Fail-safe relay (normally energized, transfers with loss of power).
- 1 amp @ 30 VDC.
- Secondary Power (Battery) Charging Circuit
- Supports lead acid and gel type batteries only.
- Float Charge Voltage: 27.6 VDC.
- Maximum Charge Current: 750 mA.

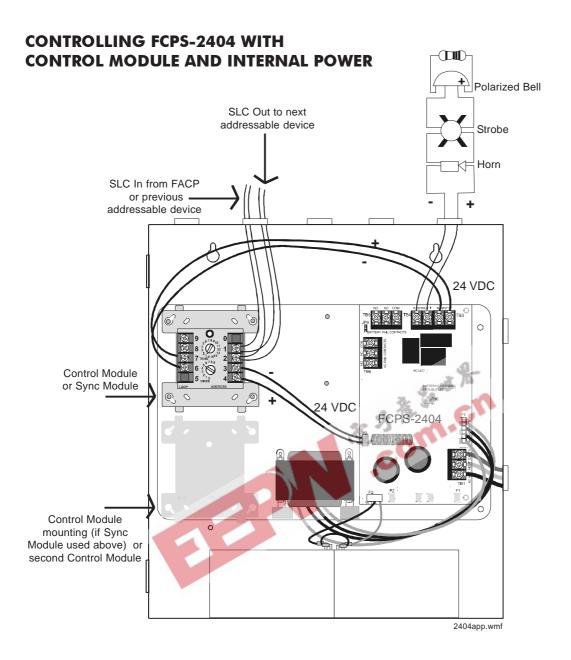
- Maximum Battery Capacity: use only 7.0 AH batteries.
- FCPS-2404 draws maximum standby current of 40 mA from batteries (includes End-of-Line Relay current if installed).

Auxiliary Power Connector – P3

- Used for powering modules inside cabinet, such as control modules.
- Voltage Rating: 24 VDC.
- Current: 30 mA maximum.



FCPS-2404 BOARD LAYOUT



PRODUCT LINE INFORMATION

FCPS-2404	NAC power expander (120 VAC). Includes main printed circuit board, transformers, red enclosure, and installation instructions.
CMF-300	Intelligent addressable control module.
MDL	Sync module for use with SpectrAlert Series, <i>red</i> .
MDLW	Sync module for use with SpectrAlert Series, <i>white</i> .
BAT-1270	Battery, 12 volt, 7.0 AH (two required).
90273	Hardware kit to be used when installing addressable or synch modules.
FCPS-24RB	Replacement motherboard.