

## Power Supply—NAC GEMC-NACXX

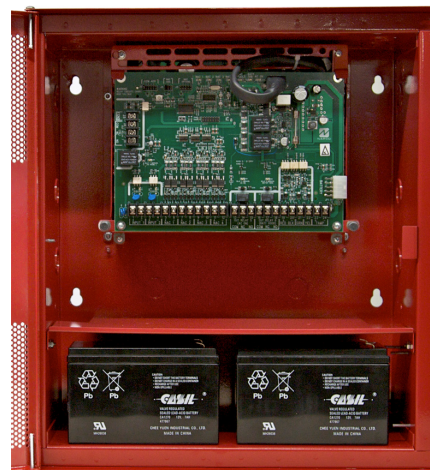
### FEATURES

- 4-Supervised Outputs suitable as 24V, maximum 2A
- each, combined 6.5A maximum regulated Notification
- Appliance Circuits. These outputs can be configured as:  
 4 Class B or  
 1 Class A and 2 Class B or  
 2 Class A
- 3-Unsupervised Form-C Dry relay outputs activated by a programmed event generated by the Gemini C-Series control panel
- One supervised, isolated GEMC-Remote Bus interface
- One normally-closed (N/C) housing tamper input, identified by trouble on dedicated integral EZM zone
- Isolated integral ground-fault detection circuit (
- One isolated input (terminals 1-2) to synchronize
- "Smart" outputs (Listed *Wheelock* or *System Sensor* horns/strobes) with other outputs from the C-Series motherboard or other GEMC-NACXX devices
- Power supply contains integral battery charger capable of charging up to 4 pairs of 7AH / 7.5AH / 8AH sealed lead acid or gel type 12V batteries.
- The system monitors for low battery, no battery, brown-out and monitors battery charging circuit voltage, identified by battery trouble on dedicated integral EZM zone
- Remote bus interface and two Inputs are isolated, thus allowing for separate ground fault detection and annunciation
- Allows audible notification appliances (horns) to be silenced while visual appliances (strobes) continue to operate
- Input allows synchronized *Wheelock/System Sensor* operation between the motherboard or other C-Series NAC circuits, allowing for multiple NAC circuits to be used within the same area
- Each of the 4 NAC circuits are individually supervised for opens or shorts, and will annunciate and report separately
- Solid State over-current protection on the four NAC's

### OVERVIEW

The **GEMC-NAC7S** or **GEMC-NAC7L** (referred to as "**GEMC-NACXX**" throughout this data sheet) can be used as either:

- A UL864 9th edition accessory to a Gemini C-Series Combination Fire & Burglary Alarm control panel



### AGENCY LISTINGS

- UL864 9th edition: UL Listed Control Units and Accessories for Fire Alarm Systems
- CSFM: California State Fire Marshall
- NFPA 72 National Fire Alarm Code
- UL864 9th Edition: Commercial Fire
- NFPA 72 National Fire Alarm Code
- NYCFD: NYC Fire Department

--or--

- A UL864 9th edition NAC Extender for use with any listed Fire Alarm Control Panel (FACP)

### Notification Appliance Circuits (NAC's)

A Notification Appliance Circuit is a circuit or path directly connected to a *notification appliance*, i.e. any audible, tactile or visual signal--or any combination thereof--employed to indicate a fire, supervisory or trouble condition. The Gemini C-Series control panels comply with National Fire Protection Association (NFPA) requirements for temporal pulse sounding of fire notification appliances. Use only the specified UL Listed notification appliances.

## Electrical Ratings

**Primary input power:** 120VAC, 50/60Hz, 3A, maximum  
15A dedicated branch circuit.

**Fire Bus Input Power Rating:** 12.0V Nominal, 8mA.

**Total Output Power:** 24VDC, 7A maximum, power limited outputs. Each NAC circuit output rated @ 2A maximum.

**Supervision:**

- AC fail supervision local annunciation, approximate 1 minute delay to prevent nuisance swingers
- Battery presence, low battery supervision and battery charger voltage supervision; combined to generate a common battery trouble
- Remote bus supervised for opens, shorts or ground faults

**NAC End-of-Line Resistor:** 2.2K ohms (NAPCO EOL2.2K).

**Common Trouble Relay ("Out Relay 6"):** 30VDC @ 1A, 30VAC @ 1A Resistive, connect to power limited circuits only.

**Input control circuit:** 10-30VDC @ 20mA maximum.

**Operating Temperature:** 32°F to 120°F (0°C to 49°C).

**Operating Humidity:** Maximum 85% relative humidity @ 30°C.

## Housing

**Enclosure Dimensions (W x H x D, Inches):**

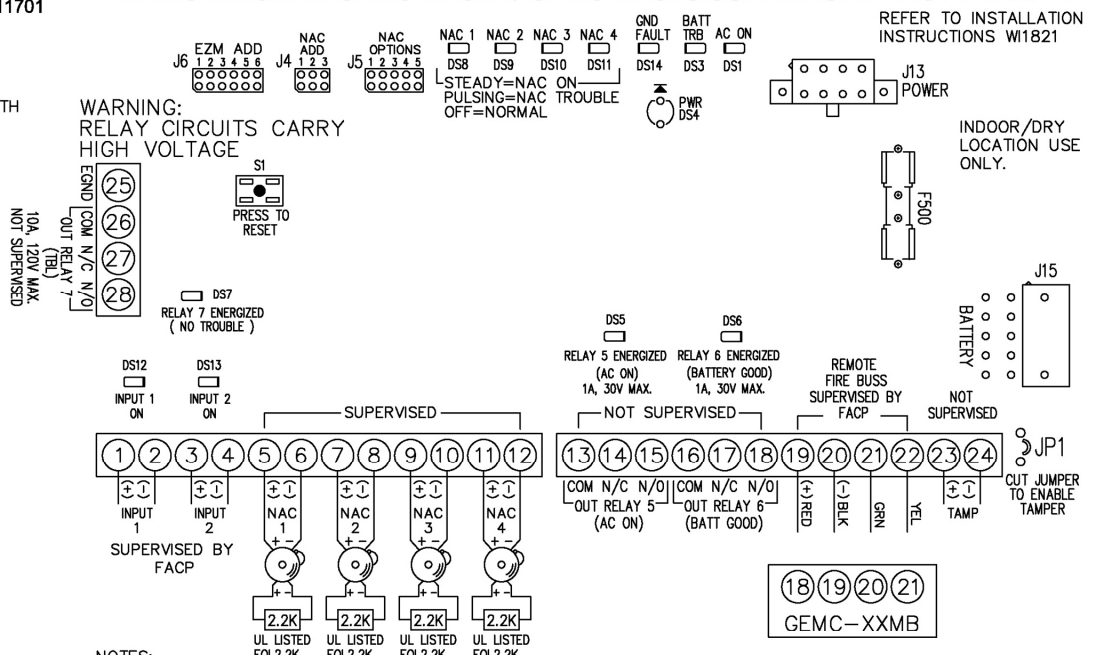
- The **GEMC-NAC7S** uses the small housing with sufficient room for two pair of 12V standby batteries (model **GEMC-HSKIT1416**, size 14.25" x 16" x 5.25")
- The **GEMC-NAC7L** uses the large housing with room for four pairs of 12V standby batteries (model **GEMC-HSKIT1425**, size 14.25" x 24" x 5.25")

**GEMC-NACXX:** Remote NAC Extender.



REPLACE BATTERY FUSE F500 WITH  
UL LISTED 12.5A, 250V FUSE  
(NAPCO PART NO. FS126)

WARNING:  
RELAY CIRCUITS CARRY  
HIGH VOLTAGE



- NOTES:

1. ALL TERMINALS ARE POWER LIMITED OR FOR CONNECTION TO POWER LIMITED CIRCUITS.  
(EXCEPTION: TERMINALS 25 - 28. SEE WI 1821 FOR WIRING METHOD'S)
2. NAC'S 1, 2 & 3: 2A MAXIMUM CURRENT REGULATED NOTIFICATION APPLIANCE CIRCUIT.
3. NAC 4: 2A MAX CURRENT, ADJUSTABLE TO 24V OR 12V REGULATED NOTIFICATION APPLIANCE CIRCUIT.
4. MAX. 2 WIRES PER TERMINAL, 12-24 AWG
5. MAX. 2A CHARGING CURRENT. USE ONLY 7AH, 7.5AH, 8AH BATTERIES.

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