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GEMC-24VR

24 Volt "Regulated" Output Module

INSTALLATION INSTRUCTIONS

WI1824 08/10

GENERAL DESCRIPTION

The GEMC-24VR "Regulated" Output Module is used with the Gemini C-Series control panel or the GEMC-NAC7L/S Supervised NAC Extender.

The GEMC-24VR is intended to provide a constant 24V regulated output (maximum current 1.0A) from the Gemini C-Series control panel motherboards or the GEMC-NAC7L/S Supervised NAC Extender. To provide this 24V regulated output, one of the four special application NAC outputs must be dedicated and programmed as "Reverse Polarity" and not programmed to activate on any alarms or events.

The GEMC-24VR must be used when the system requires a 24V regulated output for an initiating device rated for 24V. Without the GEMC-24VR module, the NAC output would drop below 20.4VDC when the battery is below 20.4DC (85% of nominal battery rating).

The GEMC-24VR device is a UL864 (9th edition) listed accessory to a Gemini C-Series control panel or GEMC-NAC7L/S Supervised NAC Extender.

SPECIFICATIONS

Electrical Ratings

Input Power: 24V Unregulated, 2A maximum. Supplied from NAC output of the GEMC-Series motherboard or GEMC-NAC7L/S programmed for reversed polarity.

Output Power: 24V Regulated, 1.0A maximum (maximum is reduced by battery configuration and required standby time).

Dimensions: W = 3.5", L = 4.32", H = 1.15"

PROGRAMMING

For the Auxiliary power output to be constantly on:

1. Do not program the associated NAC to trigger on any events or zone alarms.
2. Program the associated NAC (A-D) for **Reverse Polarity**.

To program the GEMC-24VR output to turn off (to reset devices) when the **RESET** button is pressed on an *unlocked* GEMC-FK1 Fire keypad:

1. Do not program the associated NAC to trigger on any events or zone alarms.
2. Program the associated NAC (A-D) for **Reverse Polarity** and **Fire Reset**.
3. Program the correct Reset time in the **Fire Reset Duration** (typically 10 seconds).

INSTALLATION

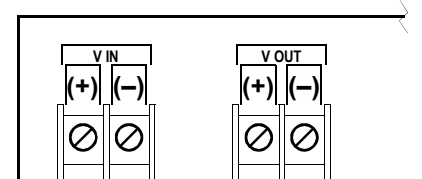
Secure the GEMC-24VR to the HW1489 battery "Shelf" as follows:

1. Insert four SC631 screws (item 6) such that the threads protrude from the bottom of the HW1489 battery Shelf as shown. Secure the screws into the SO216 Spacers (item 5) as shown.
2. Place the PC Board on top of the SO216 Spacers and secure with the 6-32 kep nuts (item 3) as shown. Do not over-tighten nuts.

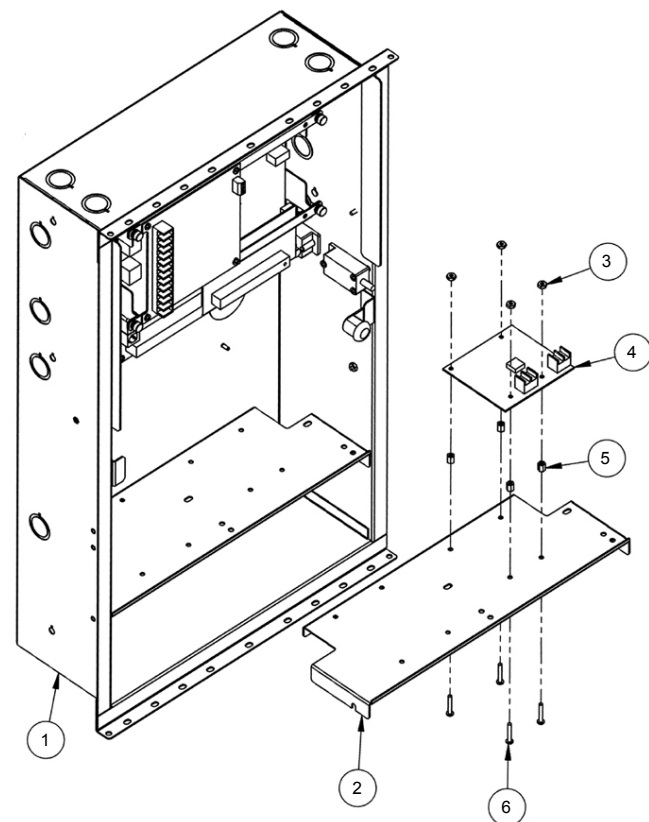
Note: If the optional GEMC-NL-MOD (Internet network module) will be used, install the GEMC-24VR into the top if the GEMC-NL-MOD plastic enclosure as detailed in WI1653.

WIRING

Two wires are run from a dedicated Gemini C-Series motherboard NAC output to the two "**V IN**" terminals on the GEMC-24VR. The 24V power limited regulated output is wired from the two "**V OUT**" terminals of the GEMC-24VR. **Note:** The wire gauge range for the terminal block (shown below) is 12-22 AWG. See WI1653 for instructions to supervise this output.



GEMC-24VR Wiring Terminals



GEMC-24VR Installation Location (see part number table below)

Item	Part No.	Description	QTY
1	HW1688	Enclosure base	1
2	HW1489	Shelf	2
3	N101	6-32 kep nut	4
4	PCB	"Boost Buck" Circuit	1
5	SO216	Spacer, 1/4" x .313, 6-32 tapped	4
6	SC631	Screw 6-32 x 7/8 pph	4

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Any action for breach of warranty, including but not limited to any implied warranty of merchantability, must be brought within the six months following the end of the warranty period. IN NO CASE SHALL NAPCO BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE SELLER'S OWN NEGLIGENCE OR FAULT.

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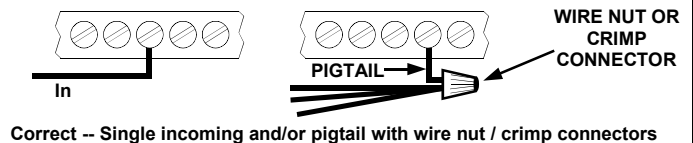
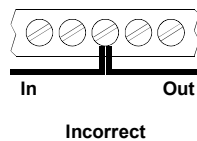
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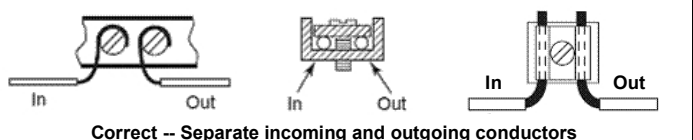
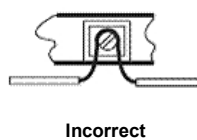
IMPORTANT WIRING METHODS



For single-conductor terminal blocks (like the type shown at left), to terminate more than one conductor to a terminal, use the wiring methods shown at right:



For "barrier" type terminal blocks (like the type shown at left), to terminate two conductors to a terminal, use the wiring methods shown at right:



To terminate more than two conductors or conductors of different wire sizes to a terminal, use the "pigtail" type wiring method as shown at right. Use insulated wire for the pigtail, and firmly secure the conductors to the pigtail using an appropriate wire nut or crimp connector for the number and gauge of conductors used.

