



GEM-CO-MOD Carbon Monoxide Cadence Module

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(Note: Technical Service is for alarm professionals only)
Publicly traded on NASDAQ Symbol: NSSC

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OVERVIEW

The **GEM-CO-MOD Carbon Monoxide Cadence Module** enables the bell output signal of the alarm system to conform to the audible cadence required by the NFPA for carbon monoxide (CO) zones (4 pulse CO cadence ("beep, beep, beep, beep")). The GEM-CO-MOD is suited for residential applications, and is designed for 12VDC alarm system control panels.

SPECIFICATIONS

Power..... 12V nominal, operating voltage range 13.6-10.5VDC
Siren Output Power As determined by your system, maximum 2A
Current Draw Standby: 8mA
Field Wiring..... Use 14-22 AWG
Operating Temperature..... 0°C – 49°C

WIRE AND TERMINAL DESCRIPTIONS

Located at the bottom of the GEM-CO-MOD PC board, the 4 wires and 2 terminals are described as follows:

Red Wire (AUX +)

Positive auxiliary input power. Wire to the control panel "AUX PWR" positive (+) terminal.

Black Wire (AUX -)

Negative auxiliary input power. Wire to the control panel "AUX PWR" negative (-) terminal.

Purple Wire (+ BELL IN)

Positive bell input. Wire to the control panel positive (+) bell output terminal.

Yellow Wire (TRIG -)

CO active low control panel alarm output. Program to activate upon a CO alarm.

+BELL OUT (terminal)

Wire to a listed audible sounding appliance. **Note:** Audible sounding appliance must have an internal driver capable of a steady output such as *MG Electronics* model MG 441-PDS.

- BELL OUT (terminal)

Wire to a listed audible sounding appliance. **Note:** Audible sounding appliance must have an internal driver.

INSTALLATION

This device is designed to be connected to a UL Listed Burglary/Fire Alarm Control Panel by a qualified security professional trained in the installation and service of burglary and fire alarms in accordance with local and national requirements. Mount the GEM-CO-MOD inside the control panel housing as follows:

MOUNTING

Choose a mounting location within the control panel housing and install using the screws provided. Mount as follows:

1. Open the GEM-CO-MOD case by inserting a small screwdriver into the slot at the bottom of the Rear Cover and twist (see Fig. 1).
2. A Mounting Plate is provided on the back of the GEM-CO-MOD Rear Cover. Remove the Mounting Plate from the back of the GEM-CO-MOD by inserting a small screwdriver in the small opening in the Rear Cover and pushing in the Retaining Tab (see Fig. 2), then slide the Mounting Plate off the Rear Cover.
3. Use screws to secure the Mounting Plate to the inside of the control panel housing using the holes indicated in Fig. 2.
4. With the Front Cover removed, slide the GEM-CO-MOD onto the mounting plate. After the wiring (described below) is completed, secure the Front Cover by placing the Front Cover onto the two top tabs of the Rear Cover, then pressing the bottom of the Front Cover; the Front Cover will snap on to the Rear Cover.

WIRING

Internal terminal block is intended for 14-22 AWG wires. Ensure all terminal connections are secure.

Connect the Red, Black, Purple and Yellow wires to the control panel terminals as shown in the following wiring diagram (see Fig. 3) using wiring nuts or UL listed connectors suitable for the application.

CO ZONE PROGRAMMING

Program the CO zone monitored by the control panel as detailed in the installation and programming instructions for the installed system.

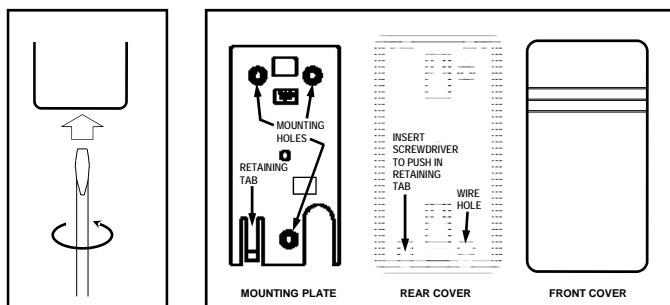


Fig. 1.
Open the Case

Fig. 2.
GEM-CO Component Parts

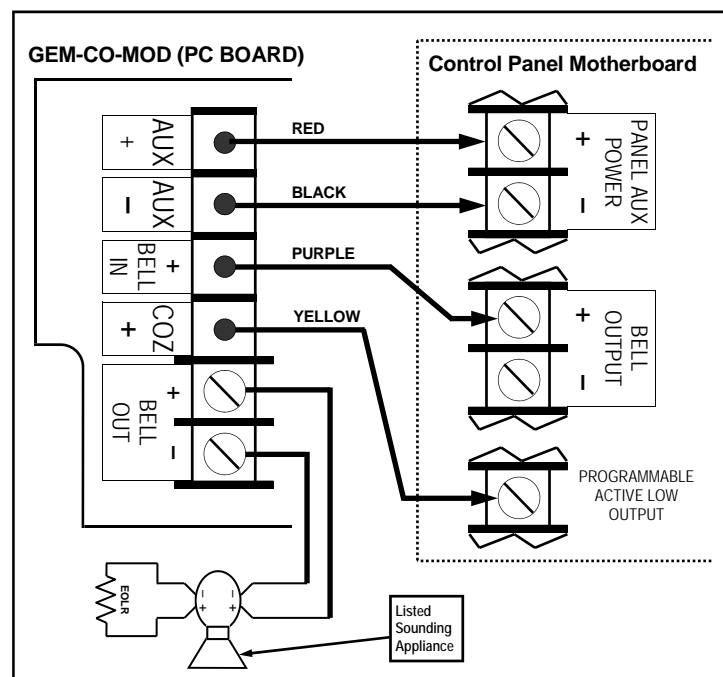


Figure 3: System Connections

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NAPCO RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.

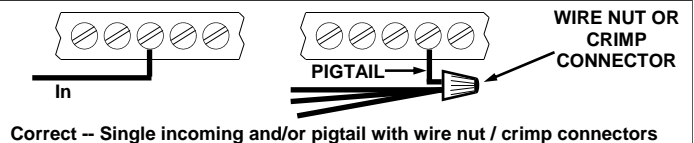
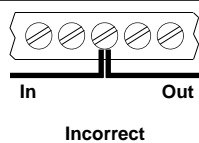
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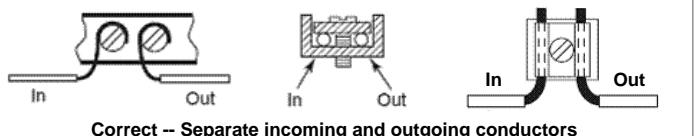
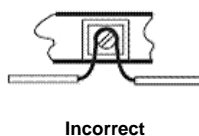
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IMPORTANT WIRING METHODS

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.

