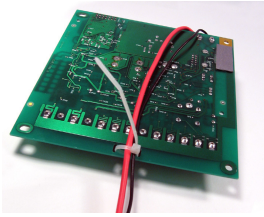
NAPCO | COMMERCIAL
FIREWOLF

Security Addressable Burglary Modules GEMC-BM/PS, GEMC-BM



FEATURES:

- Isolation of Burglary system for Fire System
- With or without separate battery power supply charger
- Burg Bell Power: 10.8 - 12.5VDC, 2A maximum
- Burg Bus Power: 11.2 - 12.5VDC, 750mA maximum

OVERVIEW

A Burg Module is required for UL Combination Burglary and Fire and Burglary-only installations to provide an isolated bus for burglary keypad(s) that are required for annunciation, and for other burglary/access control peripheral devices.

Two Burg Module Options

There are two types of Burg Modules, the **GEMC-BM** and the **GEMC-BM/PS**. Both provide the same Burglary and access control features, however, the voltage and current ratings for each are different, requiring different power calculations depending on system back-up battery configurations.

- **GEMC-BM/PS** Burg Module with 24V to 12V converter and back-up 12V, 8AH max battery charger with monitor circuit
- **GEMC-BM** Burg Module without power supply; utilizes the system batteries

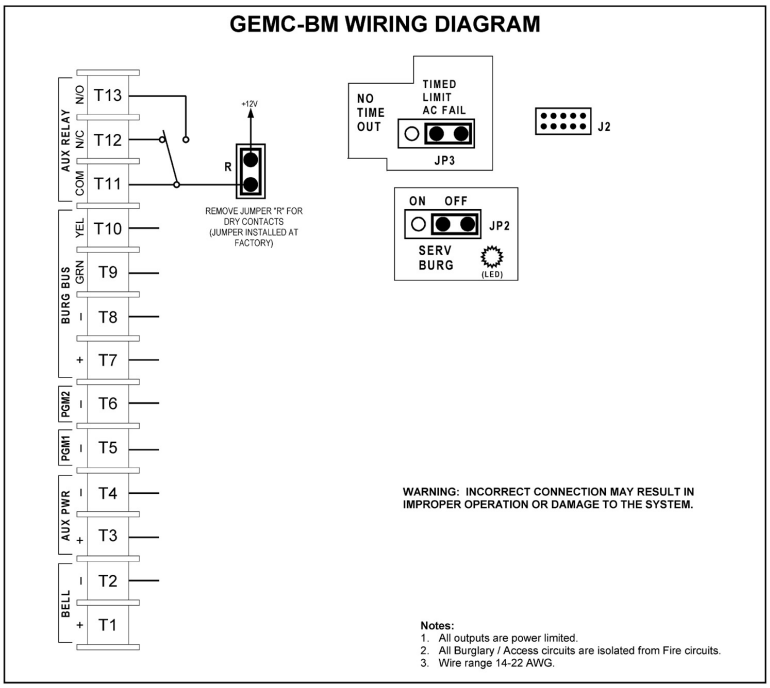
The **GEMC-BM/PS** module isolates the Burglary system from the Fire system for the more demanding authority having jurisdiction. Battery calculations are simplified for the Fire system because the Burglary portion of the system cannot affect the required Fire standby time. For UL Commercial installations, the unit is to be housed in an attack-resistant enclosure, such as the GEMC-HSKIT1425 or GEMC-HSKIT1416, employed with the GEMC-TAMPERKIT. See WI1653 for the Gemini C-Series installation instructions.

The GEMC-BM/PS module has an integral power supply. In addition, an *integral low battery disconnect* feature protects the battery during an extended power failure by disconnecting at approximately 9.5V. This *integral low battery disconnect* feature allows the charging circuit to recharge the batteries after an AC failure within 24 hours as required for Mercantile Burglary.

- During AC fail, the Burglary module and all peripherals are supported until the battery disconnect circuit activates at about 9.3V. The Fire standby batteries are not affected and only support the Fire system.
- Battery is separately monitored with a 4 hour active battery test.

AGENCY LISTINGS

- UL365: Police Station Alarm Units
- UL609: Local Burglar Alarm Units and Systems
- UL1023: Household Burglar Alarm System Units
- UL1610: Central Station Burglar Alarm Units
- Security Industry Association (SIA) False Alarm Reduction Standard CP-01



GEMC-BM SPECIFICATIONS

Electrical Ratings

Input Power: 12V Regulated, 25mA standby plus total combined standby and alarm current. Must reduce GEMC-XXXMB total 12V standby current by GEMC-MB total standby current plus 25mA.

Note: GEMC-BM total standby and alarm current plus GEMC-XXXMB total 12V standby and 12V alarm current must not exceed 2.5A.

Output Power:

Burg Bell Power: 12VDC Regulated, 2A maximum.

AUX Power: 12VDC Regulated, 750mA maximum.

Burg Bus Power ("Remote Bus Power"): 12V Regulated, 750mA maximum.

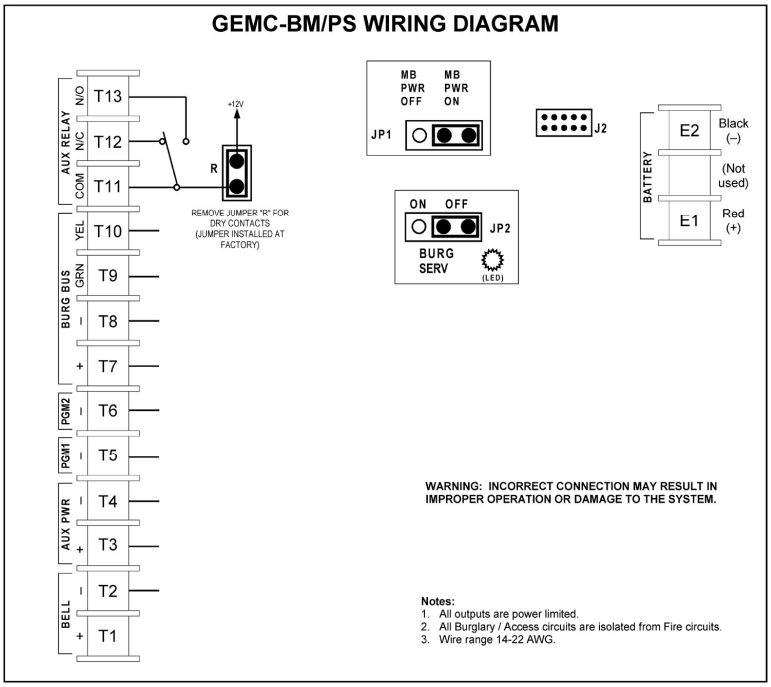
PGM1: Active low, 10.6 - 12VDC @ 150mA.

PGM2: Active low, 10.6 - 12VDC @ 150mA (For UL Commercial installations)

Aux Relay: Wet 12V Regulated @ 750mA maximum (subtract from AUX Power); may be set to a dry form "c" relay contact upon removing the jumper "R"; output rated 30VDC, 3A (Resistive Load)

Total Combined Standby Current (Auxiliary power + Burg Bus power + Aux Relay power +25mA standby current): 750mA.

Total Combined Standby and Alarm Current (Auxiliary power + Burg Bus power + Aux Relay power + Bell power): 2.5A.



GEMC-BM/PS SPECIFICATIONS

Electrical Ratings

Input Power: 24V, 25mA standby from motherboard plus 0.6 multiplied by the "**Total Combined Standby and Alarm Current**".

Output Power:

Burg Bell Power: 10.8 - 12.5VDC, 2A maximum.

AUX Power: 11.3 - 12.5VDC, 750mA maximum.

Burg Bus Power ("Remote Bus Power"): 11.2 - 12.5VDC, 750mA maximum.

PGM1: Active low, 8.2 - 12.0V @ 150mA.

PGM2: Active low, 8.2 - 12.0V @ 150mA.

Aux Relay: Wet 11.2 - 12.5VDC @ 750mA maximum (subtract from AUX Power); may be set to a dry form "c" relay contact upon removing or cutting the jumper "R"; output rated 30VAC/DC, 3A (Resistive Load Only)

Total Combined Standby Current (Auxiliary Power + Burg Bus power + Aux Relay power): 750mA.

Total Combined Standby and Alarm Current (Auxiliary power + Burg Bus power + Aux Relay power + Bell power): 2.5A.

Battery Options:

- One 12V 4AH battery: Maximum standby 500mA + maximum alarm 1A = total 1.5A.
- One 12V 7AH or 8AH battery: Maximum standby 750mA + maximum alarm 1.75A = total 2.5A.

Maximum Battery Charging Current: 1A.

Note: Does not affect GEMC Fire alarm standby battery calculations, as all required Burglary standby current is from dedicated Burglary battery. Maximum GEMC-XXXMB combined alarm and standby current must be reduced by 0.6 multiplied by the combined alarm and standby current of the GEMC-BM/PS, plus 25mA.

Napco Security Technologies, Inc., 333 Bayview Ave, Amityville, NY 11701 (800) 645-9445; fax (631) 789-9292