



**NAPCO**<sup>®</sup>

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## GEM-RS232

# Control Panel / Computer Converter INSTALLATION INSTRUCTIONS

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WI988 6/99

### GENERAL DESCRIPTION

The GEM-RS232 Control Panel/ Computer Converter is an interface module which allows the NAPCO GEM-P9600 control panel to be connected to a computer which may be used to display system status. The GEM-RS232 is approved by Underwriters Laboratories for supplemental use only. It provides signal and ground isolation between the control panel and the computer and will protect the control panel from shorts, transients and surges which may emanate from the computer or the associated cabling.

The GEM-RS232 has been designed to be permanently mounted inside the cabinet of the GEM-P9600 and can be connected to the computer in several different fashions (see CONNECTION).

### SPECIFICATIONS

Input Power: 12 V DC nominal, 60 mA (supplied by control panel connections)

- Note: Reduce available panel combined auxiliary current by 60 mA)

Dimensions: 11/16" x 2 9/16" x 2 9/16" (HxWxD)

Range: 50 feet using RS232 serial cable  
100 feet using Cat5 cable

### ORDERING INFORMATION

#### 1. GEM-RS232

- RS232 Converter
- 6 conductor Modular to Modular (RJ12 Style) cable
- 1 SE-AUTOMATION EPROM

#### 2. GEM-RS232KIT

- RS232 Converter
- 6 conductor Modular to Modular (RJ12 Style) cable
- 8 Pin Modulator (RJ45 Style) to DB9 Male Adapter
- 8 Pin Modulator (RJ45 Style) to DB9 Female Adapter
- 1 SE-AUTOMATION EPROM

### SYSTEM REQUIREMENTS

The following system hardware is required:

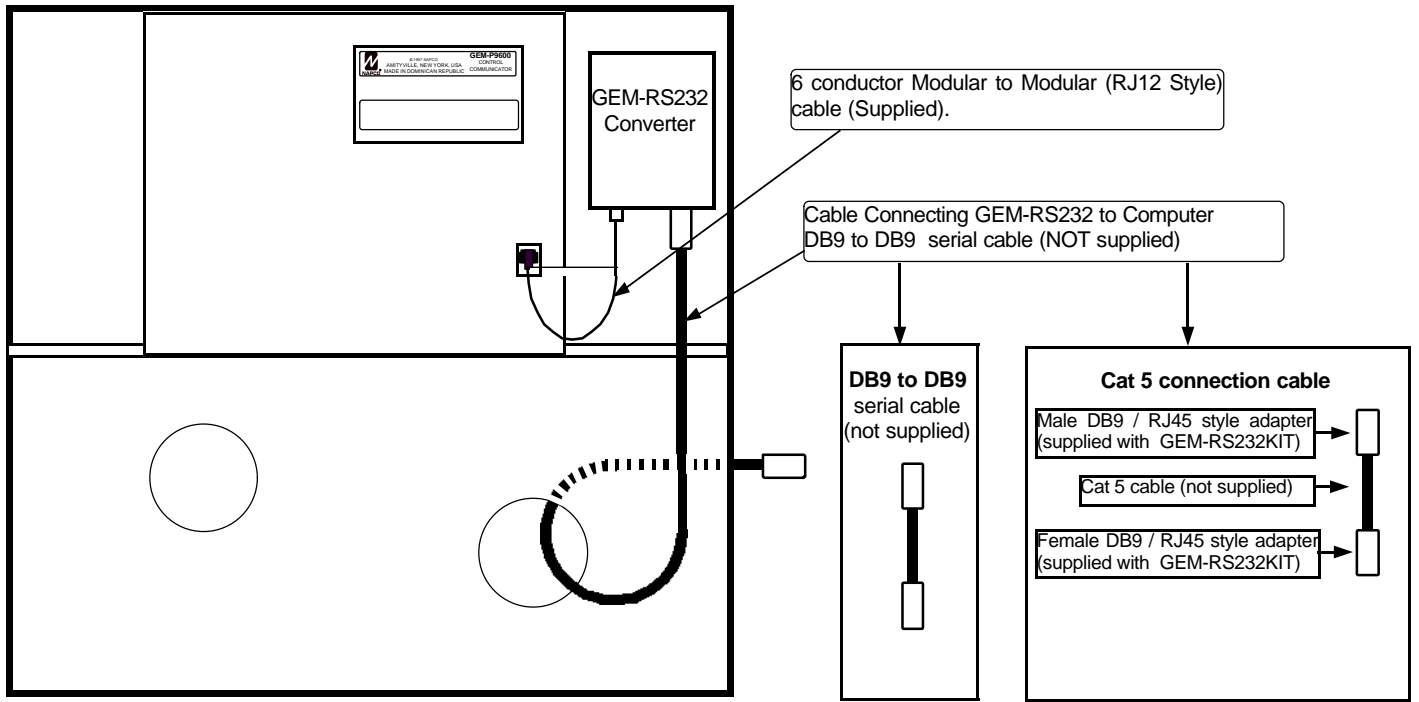
- Gemini GEM-P9600 Control Panel
- SE-AUTOMATION EPROM Upgrade must be installed in control panel.

### MOUNTING INSTRUCTIONS

- 1 Open GEM-RS232 case using screwdriver.
- 2 Drill hole in the center of the base of the case (side without label) using a 1/8" drill bit.
- 3 Drill hole in housing using a 1/8" drill bit
- 4 Mount securely using nut and screw provided

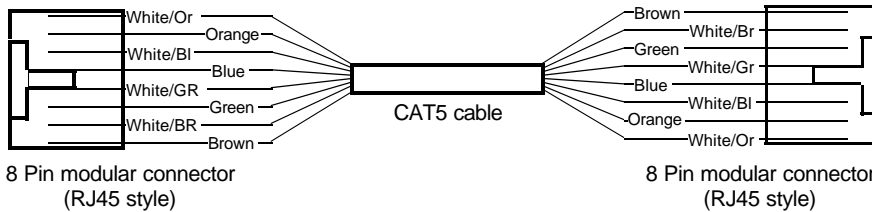
### CONNECTION

- Refer to the wiring diagram. Connect the 6-conductor modular cable (supplied) to J1 (RJ12 style) of the control panel and then plug into the module (RJ12 style) plug on the RS232 converter.
- For direct connection to serial port of computer or automation system, plug male DB9 connector of serial cable (NOT supplied) into the DB9 connector of the RS232 converter and connect other end to serial port of computer.
- For CAT 5 wiring to computer or automation system, plug male DB9/CAT5 connector (supplied with GEM-RS232KIT) into the DB9 connector of the RS232 adapter and connect female DB9/CAT5 connector (supplied with GEM-RS232KIT) to automation system DB9 connector. Use CAT5 cable terminated with standard RJ45 connectors (not supplied).



**GEM-RS232 Wiring Diagram**

**Wiring discipline for Cat 5 connectivity**



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This warranty contains the entire warranty. It is the sole warranty and any prior agreements or representations, whether oral or written, are either merged herein or are expressly cancelled. NAPCO neither assumes, nor authorizes any other person

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