GEM-TEMP64
Temperature Sensor
For use with the GEM-P1664 Control Panel
Installation Instructions

WI1425 4/06

GENERAL DESCRIPTION

The GEM-TEMP64 is an indoor/outdoor remote temperature sensor designed for use with the Napco GEM-P1664 control panel and the GEM-RP1CAe2 / GEM-K1CA keypads. The GEM-TEMP64 consists of the sensor module, which is fully encapsulated in weather resistant potting, and a snap-on durable plastic mounting plate. The GEM-TEMP64 temperature sensor provides potted electronics, digital accuracy, low power consumption and durability all in a small, easy to install package. Current Draw: 10mA.
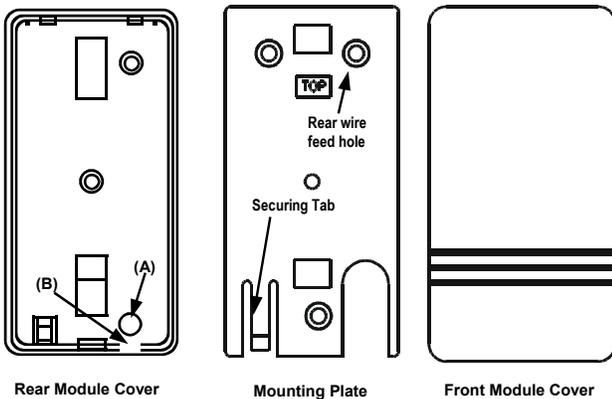

Rear Module Cover   **Mounting Plate**   **Front Module Cover**

Fig. 1. GEM-TEMP64 Component Parts

MOUNTING THE GEM-TEMP64

Before mounting the temperature sensor, always plan ahead and determine the route all wires will follow before drilling into wall mounting surfaces. Install the GEM-TEMP64 as follows:

Determine mounting location. Using the template (page 3) and a pencil, lightly mark the location of the two mounting holes and the wire feed hole. Mounting location should not exceed 300 feet from the control panel.

Route the Sensor Wires. Three wires are needed to connect the GEM-TEMP64 to the control panel. Use #18 AWG gauge wire or larger at a maximum distance of 300 feet from the control panel. Plan the wire run carefully and determine how these wires will be accessed from behind the mounting location.

Drill wire feed hole. The Rear Module Cover (see Fig. 1, above) contains two wire feed holes: A pre-drilled *rear hole* (A) and a *side hole* (B) that is opened by removing the tab with pliers or similar tool, of used. Minimum size for the wire feed holes is 1/8", but can be made larger if necessary. **Note:** If using the rear wire feed hole, do not exceed a diameter that can be concealed by the GEM-TEMP64 module. The diameter of the feed hole should not exceed 1/2" and should be made as small as possible. **Warning:** Use caution when drilling holes--there may be

high voltage wiring in wall.

Install the Mounting Plate using two #4 mounting screws (supplied). Use hardware such as molly bolts, toggle bolts or other anchoring devices. Drill the smallest hole needed for the device. **Warning:** Use caution when drilling holes--there may be high voltage wiring in wall.

Install the Rear Module Cover by sliding the rear cover onto the mounting plate until it clicks in place. To remove, press in the securing tab and lift cover from mounting plate.

Route the module wires from behind the mounting location through the wire feed hole and through the rear module cover. Splices can be made and concealed within the module or made outside the module and pushed back into wall. Use care not to damage the wiring or the mounting surface. Seal holes with solicoln to prevent moisture from entering wall.

Install module. Place the GEM-TEMP64 temperature module over the mounting base and snap on to secure.

Connect the module wires to the control panel as detailed in Table 1, below. **Note:** Do not apply power until all wiring is complete.

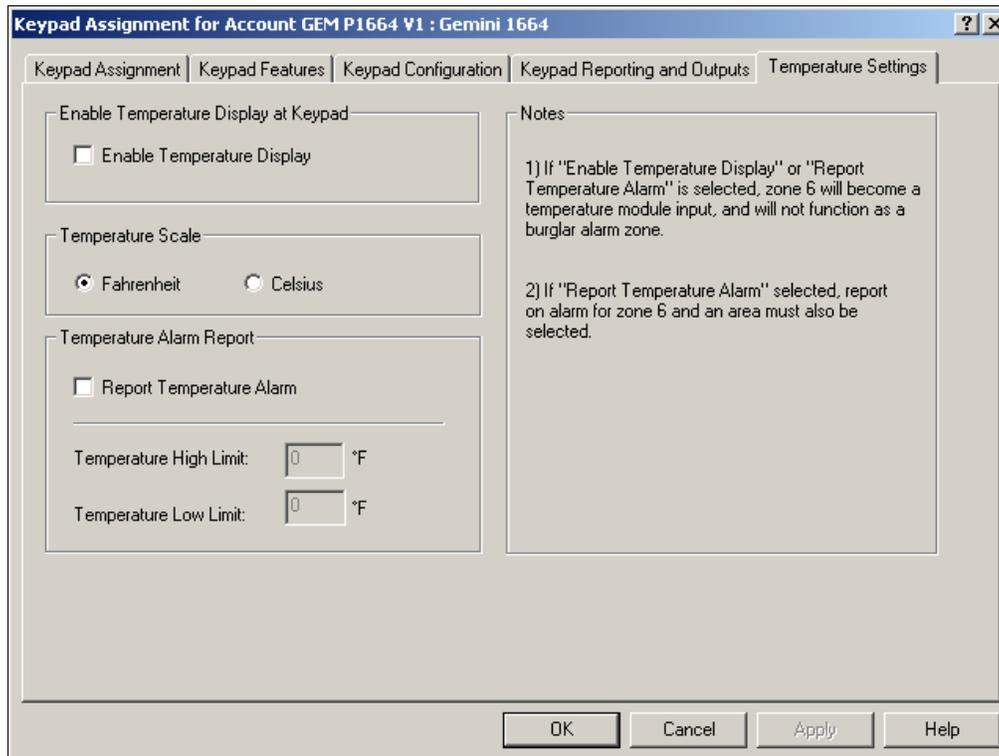| Table 1: GEM-TEMP64 Wire Connections		
GEM-TEMP64 Wire Colors	**GEM-P1664 Terminal Description**	**GEM-P1664 Terminal Number**
Red	12V Auxiliary Power or 12V Remote Power	5
Black	Ground Auxiliary (−)	6
Green	Zone 6 (+)	21

PROGRAMMING THE GEM-P1664 PANEL

See WI1386 for complete programming information for the GEM-P1664 control panel.

Three addresses must be enabled (either via Quickloader or via direct address programming) in order for the temperature to be displayed instead of the date on line 2 of the GEM-RP1CAe2 (or GEM-K1CA) keypad. enable the following addresses In PCD-Windows Quickloader software or in direct address programming via the keypad:

1. **Keypad Assignment**, **Temperature Settings** tab, **Enable Temperature Display** (Address 1668, press option 1)
2. **Keypad Assignment**, **Keypad Features** tab, **Enable Keypad Time/Date Display** (Address 1420, press option 7)
3. **Keypad Assignment**, **Keypad Features** tab, **Enable Set Time/Date Message** (Address 2051, press option 1)

Note: If these three addresses are set and power (AC and battery) are subsequently removed, they keypad will indicate that the time and date are lost and will need to be reset. See next page for PCD-Windows Quickloader screen image.

Keypad Assignment for Account GEM P1664 V1 : Gemini 1664

Keypad Assignment | Keypad Features | Keypad Configuration | Keypad Reporting and Outputs | **Temperature Settings**

Enable Temperature Display at Keypad
☐ Enable Temperature Display

Temperature Scale
◉ Fahrenheit   ○ Celsius

Temperature Alarm Report
☐ Report Temperature Alarm

Temperature High Limit: [0] °F

Temperature Low Limit: [0] °F

Notes
1) If "Enable Temperature Display" or "Report Temperature Alarm" is selected, zone 6 will become a temperature module input, and will not function as a burglar alarm zone.

2) If "Report Temperature Alarm" selected, report on alarm for zone 6 and an area must also be selected.

[OK] [Cancel] [Apply] [Help]

NAPCO LIMITED WARRANTY

NAPCO SECURITY SYSTEMS, INC. (NAPCO) warrants its products to be free from manufacturing defects in materials and workmanship for *thirty-six months* following the date of manufacture. NAPCO will, within said period, at its option, repair or replace any product failing to operate correctly without charge to the original purchaser or user.

This warranty shall not apply to any equipment, or any part thereof, which has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to acts of God, or on which any serial numbers have been altered, defaced or removed. Seller will not be responsible for any dismantling or reinstallation charges.

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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.

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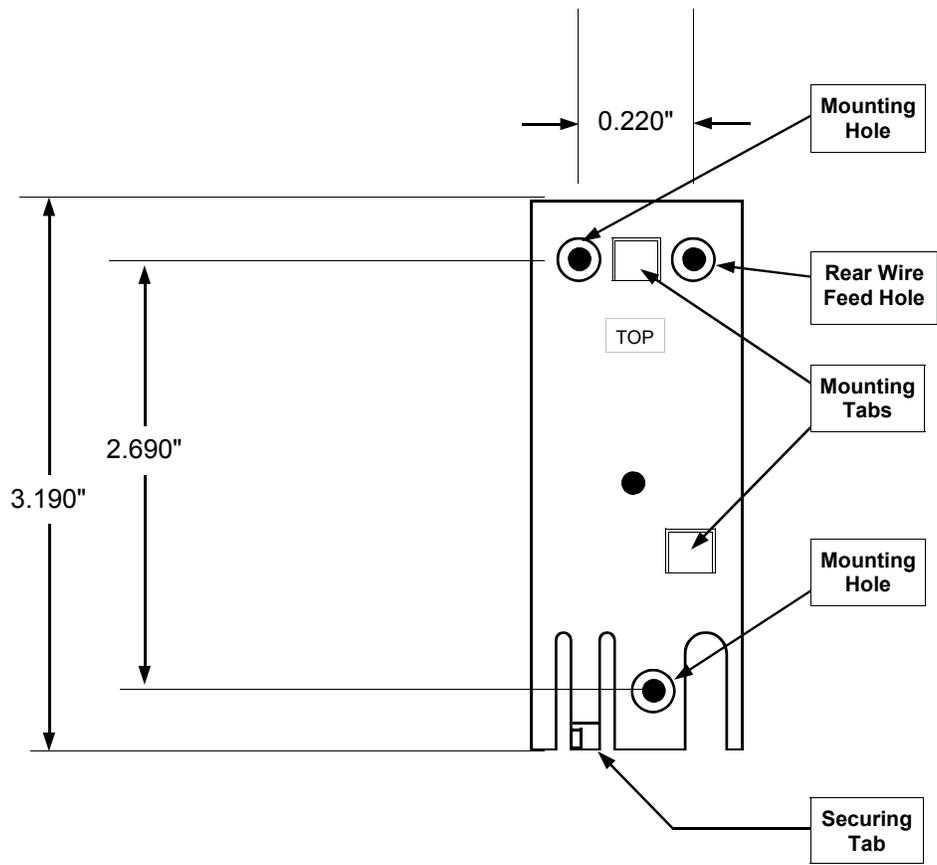NAPCO RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.

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Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, or differentiate in their treatment of limitations of liability for ordinary or gross negligence, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

GEM-TEMP64
Temperature Sensor
Mounting Template

0.220"

Mounting
Hole

Rear Wire
Feed Hole

TOP

Mounting
Tabs

2.690"

3.190"

Mounting
Hole

Securing
Tab

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