



NX-8V2-Control Panel Installation Instructions

A-66-23304 • October 2009
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Introduction

This is the GE NX-8V2-Control Panel installation instructions. Installations should only be done by trained professionals. Use this document to install the system with default settings that comply with UL requirements.

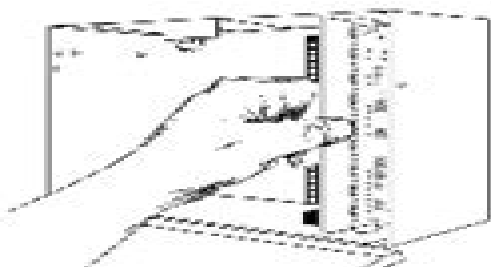
To install the keypad, other peripherals, and sensors, refer to the documentation for those devices.

Installation

There are four slots for board insertions inside the metal enclosure, two on the top and two on the bottom. These allow the PC board to be positioned vertically (Figure 1). When you slide the board between the grooves of the slots, make sure the terminal strip is toward the front opening (toward you) to allow for the wire connections.

Note: Install the metal enclosure with the door opening from the top to bottom.

Figure 1. Board installation



Network keypad maximum wire run

Table 1 lists wire lengths for one keypad at the end of the wire. When connecting more than one keypad to the end of the wire, a higher gauge wire is required.

Table 1. Maximum keypad wire run

Length in feet	Wire gauge for RS-485	Wire gauge for RS-422-B
250	24	23
500	20	18
1000	18	16
1500	16	14
2500	14	12

Terminal descriptions

Table 2 describes the panel terminals.

Table 2. PC Board terminals

Terminal	Description
R2	House telephone ring (pink)
R	Telephone ring (red)
T	Telephone tip (green)
T1	House telephone tip (brown)
EARTH	Earth ground. Connect to a cold-water pipe or a 6-to-10 ft. aluminum rod.
AC	AC input. Connect to a 115 V, 60 or 50 Hz, Class II 1% regulated transformer.
Bell+ and Bell-	If used as a line-output (default), the speaker rating should be 1.5 watt at 16 ohms or 30 W at 8 ohms. If voltage output is selected in location 1.1, this output becomes voltage output, 1.2 VDC, 1 Amp maximum load. Note: A 1.5 ohm resistor may be required across the bell terminals when a 1.2 VDC alarm is used. If no resistor is used, you may experience voltage feedback into the alarm, which will cause these devices to output a small signal.
KP DATA	Connect to the data terminal on the keypad and the expansion. Maximum number of devices (key pads plus expansion) is 12. See Maximum Wire Run table.
KP COM	Connect to the common terminal on the keypad and the expansion.
KP POS	Connect to the POS terminal on the keypad and the expansion. Individually, this terminal is limited to 1 amp. Combined this terminal and AUX POSs are limited to 2 amps total current.
SHORTR	Smaller detector power (1.2 VDC, 1 Amps maximum) for those pendant and smoke detectors that do not have to be used with smoke detectors.
COM	Common negative wire of powered devices such as motion detectors and smoke detectors.
AUX POSV	Connect positive wire of all powered devices except smoke detectors and keypads. Individually, this terminal is limited to 1 amp. Combined, this terminal and KP POS are limited to 2 amps total current.
ZONE 6	Connect to one side of zone 6 loop. Connect the other side to com terminal. Open or short as case allows. Only zone 6 may be used for a two-wire smoke detector using a 90 ohm EOL resistor. Refer to the wiring diagram for examples. Program location 1.1, segment 8, option 1.
COM	Common terminal for zones 7 and 8.
ZONE 7	Connect to one side of zone 7 loop. Connect the other side to COM terminal. Open or short as case allows.
ZONE 6 to 1	Connect as described for zone 7 and 8. Only zone 6 can be a two-wire zone. Refer to the wiring diagram for examples.
AUX 1 to AUX 4	Connect negative lead of low current device (relay, LED indicator, bell resistor in series with LED, etc.) Connect positive lead reference to COM. Current is limited to 50 mA when output is negative and 250 mA when output is positive.

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