

Manager's Alarm Panel Installation Instructions

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Description

The Manager's Alarm Panel (MAP) is a component of Novar Controls Corporation's Spectrum[®] Refrigeration Control System and Logic One[®] Building Management System. It provides easy access to system alarm information as it is received from a Refrigeration Controller (RC), Executive Processor (EP/2), or Lingo[®].

The MAP has an 8-line by 40-character liquid-crystal display (LCD) and an easy-to-use keypad that allows the user to access system alarm-related operations. Alarm data can be printed through the panel's printer port.

NOTE! The panel must be used on a Local Area Network (LAN) between RC, EP/2, and/or Lingo controllers. The panel cannot be used if it is operating on a master/slave network.

This document provides instructions for installing, wiring, and testing the MAP.

Specifications

Power Requirements

Voltage: 24 VAC or 24 VDC, Class 2
Consumption: 5 VA 225 mA

Operating Environment

Temperature: 23° to 158°F (0° to 70°C)
Humidity: 0 to 95% Relative, noncondensing

Physical Dimensions

Length: 11.75 inches
Width: 7.88 inches
Depth: 1.5 inches

Precautions

Take the following precautions when installing the MAP:

- Observe all national and local electrical codes.
- Do *not* use the MAP as a final safety device.
- Connect 24-volt power wiring only to those terminals marked 24 VAC (if not using the optional wall plug-in power connection).
- Make sure that all wires are run through the two small openings at the bottom of the panel or through the knockout located below the transition circuit board terminal label.
- Do *not* pinch any wires when replacing the cover.
- Do *not* connect more than nine Case Input Module loads when a Manager's Alarm Panel is connected to the RC.

When connected to an RC for power, the panel's power consumption is equal to three Case Input Module loads. The RC must be powered at 40 VA.

Mounting the MAP

The MAP can be mounted securely to any mounting surface. Use the following procedure and refer to Figure 1, as necessary, to mount the panel.

Step	Procedure
1	Loosen the four screws holding the panel's cover to the baseplate and remove the cover. <ul style="list-style-type: none">■ Two screws are located at the top and two at the bottom.■ It not necessary to remove the screws completely.
2	Select a suitable mounting surface.
3	Position the baseplate against the mounting surface and mark the location of the four mounting holes.
4	Drill holes in the locations marked in Step 3.
5	Insert a screw in each hole and tighten until the head of the screw is approximately 1/4-inch away from the mounting surface.
6	Position the baseplate over the screws and slide it down until the screws slide into the slots on the baseplate.
7	Tighten the screws to secure the baseplate.

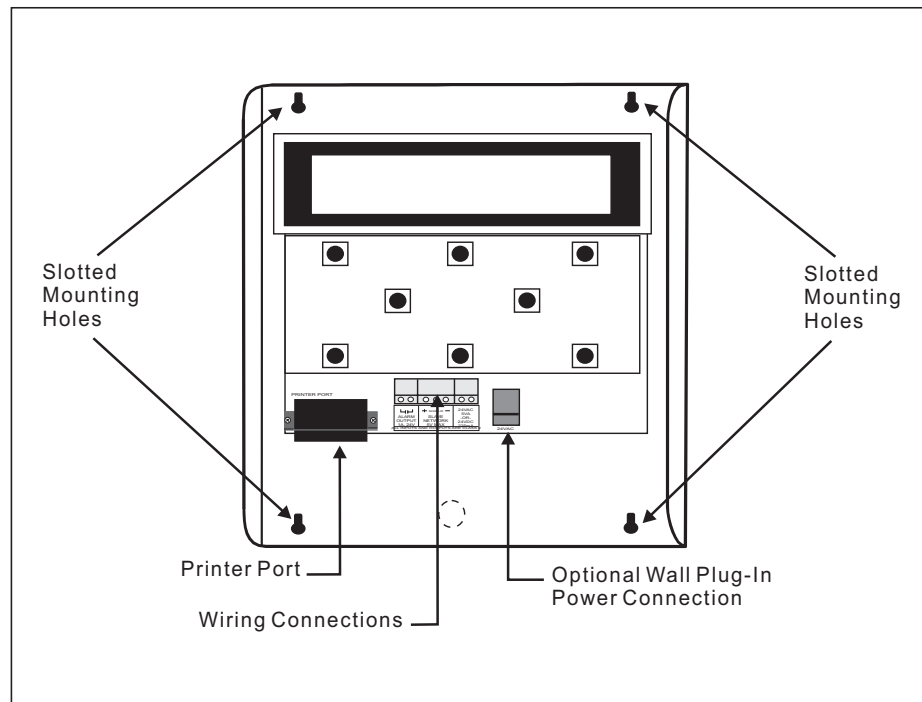


Figure 1. Manager's Alarm Panel Baseplate

Wiring the MAP

The MAP must be wired for power and network communications. An alarm output can be wired to the MAP, but it is optional. A printer can also be wired to the MAP.

Wiring can be run through two small openings at the bottom of the panel or through a knockout plug located below the transition board terminal label.

Use the procedures provided below and refer to Figures 2, as necessary, to wire the MAP.

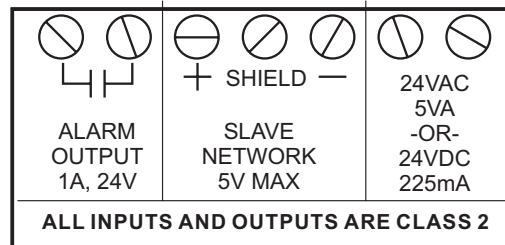


Figure 2. MAP transition circuit board

Power Connections

Using the Refrigeration Controller for Power

Make the following wiring connections if the Refrigeration Controller is to be used to power the MAP.

Step	Procedure
1	Connect the power leads to the terminals labeled 24VAC, 5VA or 24VDC, 225mA on the MAP's transition circuit board.
2	Connect the other end of the power leads to Terminals 13 and 14, labeled GND and +24 on the Refrigeration Controller's transition board. <ul style="list-style-type: none"> ■ For information about wiring power to the Refrigeration Controller, refer to the Novar Controls <i>Refrigeration Controller Installation Instructions</i> (Doc. No. 560200000).

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Using the Plug-in Power Transformer for Power

An optional plug-in power transformer can be used to supply power to the MAP locally with the Novar Controls 24-VAC plug-in transformer.

CAUTION! If the transformer is used to supply power to the MAP, do *not* connect any wiring to the MAP's 24-VAC or 24-VDC power terminals.

Use the following procedure to make the necessary connections.

Step	Procedure
1	Locate the MAP's wall plug-in power transformer connector. <ul style="list-style-type: none">■ The connector is located to the right of the wiring connections on the circuit board (see Figure 1).
2	Plug the transformer's connector into the MAP's wall plug-in power connector.
3	Connect the transformer to an appropriate 120-VAC power outlet when ready to power up the panel.

Network Communications

The Manager's Alarm Panel must be connected to a Local Area Network (LAN) using either NovarNet[®] or MOD2 LAN protocols.

Two-conductor shielded cable (Belden #8761, Novar Controls WIR-1010, or equivalent) should be used to make the network communication connections. Use the following procedure.

Step	Procedure
1	Connect the cable to the MAP at the connections labeled Slave Network 5V Max. <ul style="list-style-type: none">■ Connect the white wire to the positive (+) terminal.■ Connect the shield wire to the SHIELD terminal.■ Connect the black wire to the negative (-) terminal.
2	Connect the other end of the cable to the RC at the terminals labeled Slave RS-485 or to the EP/2 at the terminals labeled LAN. <ul style="list-style-type: none">■ Connect the white wire to the positive (+) terminal.■ Connect the shield wire to the SHIELD terminal.■ Connect the black wire to the negative (-) terminal.

Alarm Output

The terminals on the MAP's transition circuit board labeled Alarm Output are available for connecting software-configurable output connections such as an alarm annunciator output. The connection can be configured as normally open or normally closed.

For more information about configuring the software for the alarm output connection, refer to the Novar Controls *Managers Alarm Panel Keypad and Display Instructions* (Doc. No. 569030000).

Printer Connections

A printer can be connected to the Manager's Alarm Panel printer port (a standard 25-pin connector) and configured using the panel's keypad and display to print alarms.

Follow these steps to connect a printer to the Manager's Alarm Panel.

CAUTION! Use caution when connecting the cable to the printer port. The pins on the connection can be damaged.

Step	Procedure
1	Locate the printer port on the Manager's Alarm Panel. <ul style="list-style-type: none">■ The port is located to the left of the wiring connections (see Figure 1).
2	Run the printer cable through one of the two access holes at the bottom of the panel.
3	Connect the cable to the printer port.
4	Tighten the screws on the cable's connector.

For information about configuring the software to print alarms, refer to the Novar Controls *Managers Alarm Panel Keypad and Display Instructions* (Document No. 5690300).

Checking Installation

When the MAP has been mounted and the wiring connections have been completed, the following items should be checked to ensure proper operation.

- Make sure the panel is securely fastened to the mounting surface.
- Make sure that all wiring connections are secure and correct.
- Make sure that any wires run through the holes in the bottom of the panel are in the holes before replacing the cover.
- Check the first screen that appears on the display. If the MAP is properly wired, the screen shown in Figure 3 should appear for a few seconds and then be replaced by the Main Alarm Log screen.

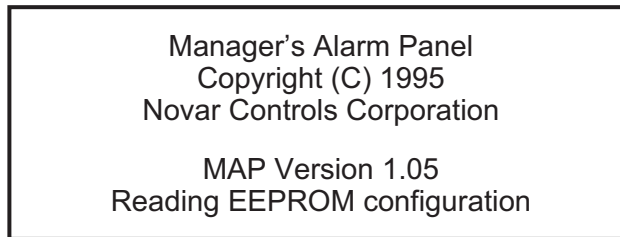


Figure 3. MAP power-up display

If the screen does not appear:

- Check the wiring.
- Make sure that the MAP is receiving power.
- Make sure the MAP is properly connected to the LAN network.

If everything checks out successfully, reattach the cover.

Model and Part Numbers

Use the part numbers shown in Table 1 to order the necessary Novar Controls parts.

Table 1. Novar Controls Part Numbers		
PRODUCT	MODEL NO.	PART NO.
Manager's Alarm Panel	MAP	780055000
Two-conductor shielded cable (Belden #8761 equivalent)	WIR-1010	709001000
24-VAC Plug-in Transformer	24V-XFR	730090000
