

How to Install a Relay Card

Product: EZ-MAX Plus and Z-MAX Product Families **Article ID:** 100609-RLL/AM-01

Date: October 6th, 2009

Summary: This article explains the proper method for installing relay cards within an EZ-MAX Plus, Z-MAX, and/or Z-MAX Plus relay panel.

Information:

Installation

Step 1: Turn off main feed and all branch breakers feeding the relay panel.

Step 2: Open relay panel (**Figure 1**).

Step 3: Install relay card by matching the black connector with the connector mounted on the relay bus card (**Figure 2**).

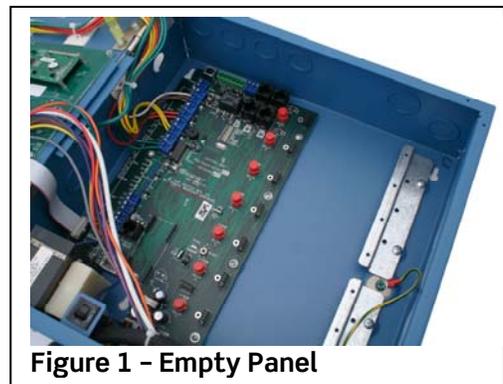


Figure 1 - Empty Panel

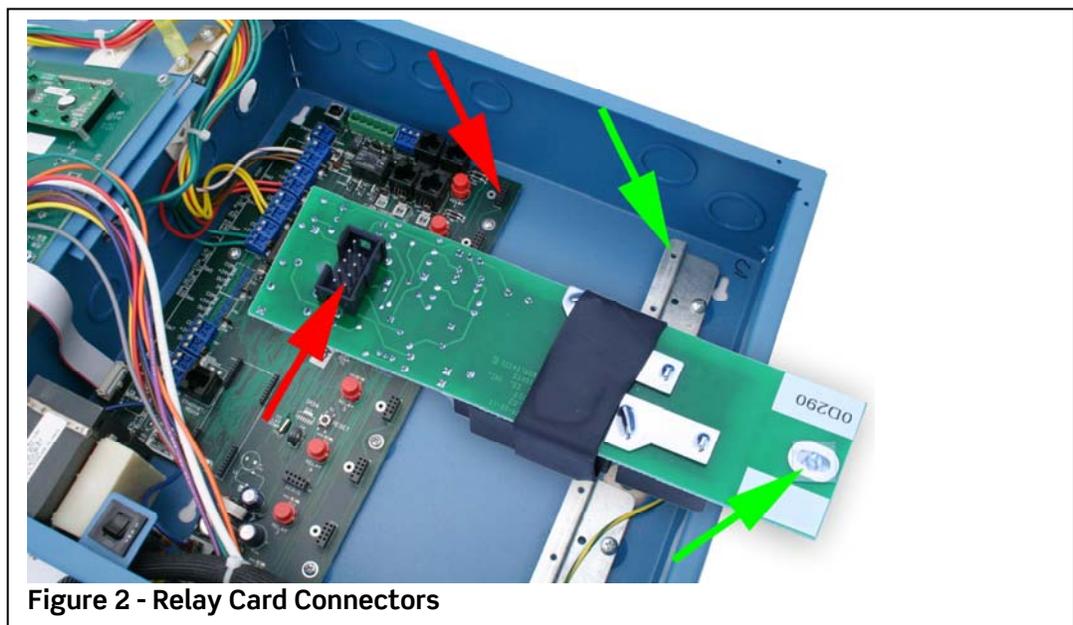


Figure 2 - Relay Card Connectors

Step 4: Press firmly to ensure relay is seated properly on the connector.

Step 5: Tighten screw (**Figure 3**). Repeat Steps 1 through 5 for each additional relay card.

Step 6: Connect each line and load wire. (**Figure 4**).

Step 7: Tighten line and load terminal (**Figure 4**) to specification within installation manual.

- [EZ-MAX Plus link](#)
- [Z-MAX and Z-MAX Plus 8 link](#)
- [Z-MAX and Z-MAX Plus 24 & 48 link](#)

Step 8: Perform continuity test on wires to ensure no shorts exists.

Step 9: Turn on all breakers feeding the relay panel.

Programming for Z-MAX or Z-MAX Plus Relay Panels (Software Version 2.xx and above) (Figure 5). *Contact the factory if the panel is running an earlier version of software.

Step 1: Press **MENU** button.

Step 2: Press **up or down arrows** to locate CONFIGURATION, and then press **SELECT**.

Step 3: Press **up or down arrows** to locate SYSTEM SETUP, and then press **SELECT**.

Step 4: If SYSTEM SETUP is not shown, press **up or down arrows** to locate MODE: SIMPLE. Change to ADVANCED by pressing **SELECT**, and then press **up or down arrows** to locate ADVANCED and then press **SELECT** to save option.

Step 5: Press **up or down arrows** to locate SYSTEM SETUP, and then press **SELECT**.

Step 6: Press **up or down arrows** to locate RELAYS, and then press **SELECT**.

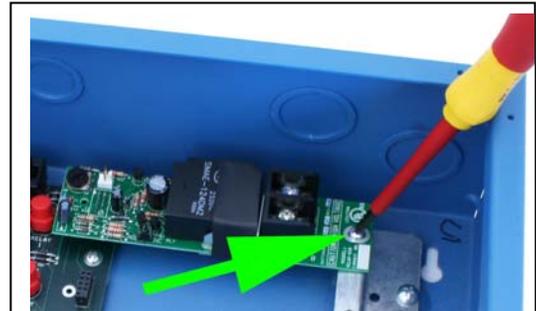


Figure 3 - Tighten Mounting Screw

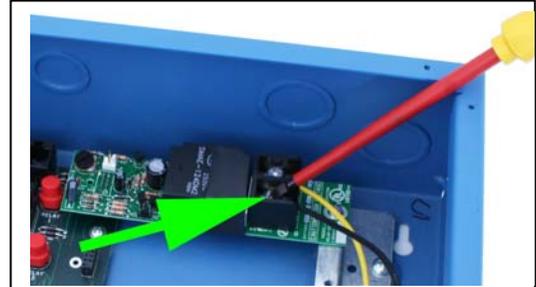


Figure 4 - Line and Load

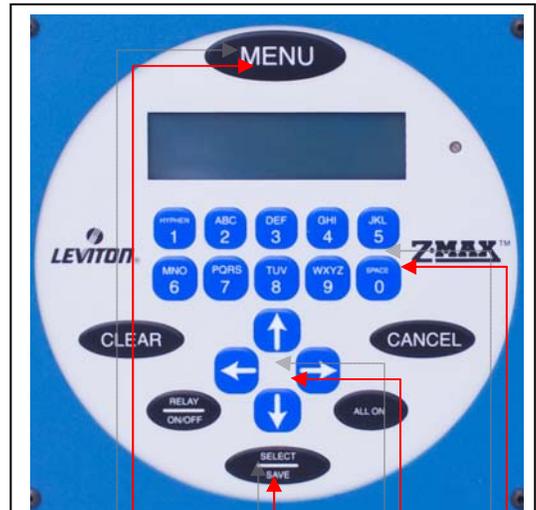


Figure 5 - Z-MAX, Z-MAX Plus Interface

- MENU
- SELECT
- Up or Down Arrows
- Numeric Keypad

Step 7: Enter associated relay number with **numeric keypad** or by pressing **left or right arrows**.

Step 8: Once relay number is found, press **SELECT**. * This will cause the relay type selection to flash.

- xxxxxxxx = LATCHING (RELAY-030 or -LAT)
- OldstdNO (RELAY-STD)
- None (No relay installed)
- ST2 NO (RELAY-ST2) or (-2PL)
- STD NC (RELAY-1NC) or (-2NC)
- CUSTOM (Future Use)
- PULSE (Not Used)
- NC SEN S (RELAY-ST2) *
- NC SEN L (RELAY-ST2) *
- ST SEN S (RELAY-ST2) *
- ST SEN L (RELAY-ST2) *

* = Used for Sentry Switches; A.K.A. Sweep Switches.

Step 9: Use **up and down arrows** to locate the correct relay type, and then press **SELECT** to save.

Step 10: When complete, press **MENU** key to exit.

Programming for EZ-MAX Plus Relay Panels (All Versions) (Figure 6).

Step 1: Press **MENU** button.

Step 2: Press **up or down arrows** to locate SYSTEM, and then press **SELECT**.

Step 3: Press **up or down arrows** to locate CONFIGURE RELAY, and then press **SELECT**.

Step 4: Enter associated relay number with **numeric keypad** or by pressing **up or down arrows**.

Step 5: Once relay number is found, press **SELECT**.

Step 6: Press **up or down arrows** to locate relay type.

- xxxxxx = LATCH (DEFAULT) (RELAY-030, or -LAT)

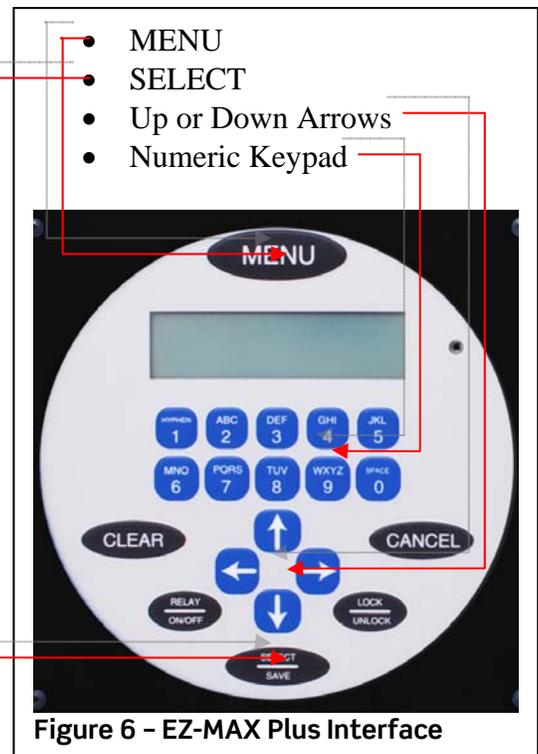


Figure 6 - EZ-MAX Plus Interface

Technical Article



- NORMALLY CLOSED (RELAY-2NC or -1NC)
- NORMALLY OPEN (RELAY-2PL, -347, or -ST2)

Step 7: Press **SELECT** to save and to continue to the Blink Warn and Emergency State settings.

Step 8: If required, turn Blink Warn on or off by pressing **up and down arrows** and then press **SELECT** to save.

Step 9: If required, change relay Emergency State to on, off or No Change by pressing **up and down arrows**, and then press **SELECT** to save.

Step 10: When complete, press **MENU** key to exit.

Related Article:

[How to Un-install a Relay Card](#)

Contact: If you have any questions or concerns, please call LMS technical support at (800) 959-6004.

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PL-PD-F007 Rev. 2 04/06/2009