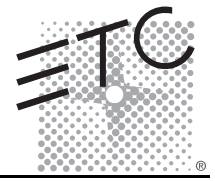


ETC® Setup Guide

Paradigm DRd Termination Kit Installation



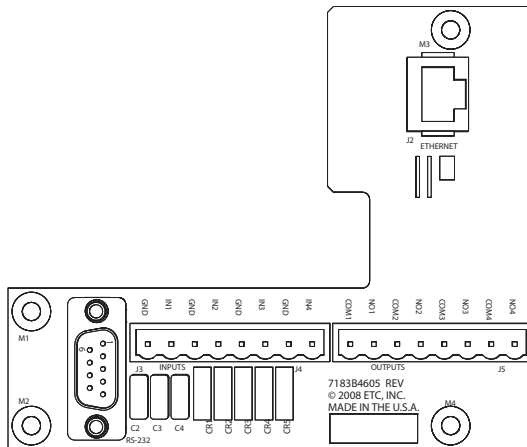
Overview

The Paradigm DRd termination kit (P-DRd-TK) is provided for field installation into a DRd enclosure for use with a Paradigm architectural control processor. This kit includes the DRd left I/O board.



Note: *All low voltage control cables must run in separate conduit from power wires.*

The left I/O board should be installed by the installing contractor or qualified field technician.



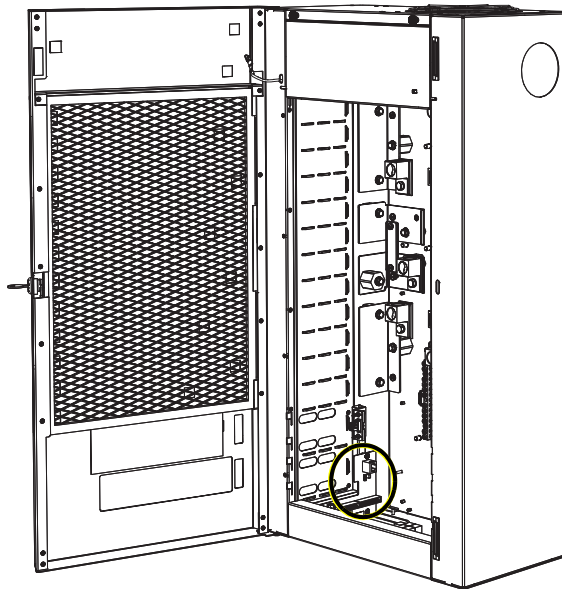
The left I/O board supports the Paradigm architectural control processor data terminations including:

- RS-232 on a male 9 pin (D style) connector
- Ethernet on a RJ-45 female connector
- Contact closure input terminations on a 8 pin pluggable connector. Terminations available for 4 inputs and 4 ground wires.
- Contact closure output terminations on a 8 pin pluggable connector. Terminations available for 4 normally open relay outputs and 4 common wires.

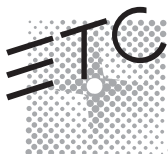


Note: *Data terminations to the left I/O board are specific to use with the Paradigm architectural control processor (P-ACP) and are not compatible with an installed SmartLink architectural control processor (S-ACP).*

Installation




- Step 1: Align the left I/O board to the mounting pems on the left side of the DRd enclosure.
- Step 2: Secure with the screws provided.



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Connect to Serial RS-232

Integrators or users of advanced systems can interface with the Unison system through the RS-232 connector on the left I/O board. This connection provides an interface with external devices capable of sending or receiving RS-232. This connection can also receive serial commands from a transmitter and provide rack and system status when queried.

 **Note:** *The RS-232 cable (not supplied) should follow common RS-232 pinout for a DB9 receptacle (pin 2 is RS-232 Rx, pin 3 is RS-232 Tx, and pin 5 is ground).*


Connect to Ethernet RJ-45

Network interface to the ERn enclosure is made through the RJ-45 connector (labeled Ethernet) located on the left I/O board.

 **Note:** *All Ethernet terminations must follow IEEE 802.3 and be terminated to the T568B standard.*

Connect to Contact Inputs and Contact Outputs

The left I/O provides a convenient interface (inputs and outputs) to external devices via contact closure on removable pluggable connectors. Maintained or momentary operation is specified in the Paradigm configuration using LightDesigner software. Up to four contact outputs are available and are preset for normally open operation.

 **Note:** *Typical contact I/O wiring is color coded as follows: contact 1 - brown, contact 2 - orange, contact 3 - yellow, contact 4 - green. All commons and ground voltages are typically black or red.*

Terminate Contact Inputs

- Step 1: Remove the contact inputs removable screw terminal connector located on the left I/O board. Each connector is labeled for installation convenience.
- Step 2: Strip 3/16" (5mm) of insulation from the ends of each wire pair.
- Step 3: Loosen the required number of contact input screw terminals and related ground screw terminals on the connector.
- Step 4: Insert contact closure 1 into the terminal labeled "IN1" on the connector and tighten the screw terminal.
- Step 5: Insert the related ground wire for contact closure 1 into the terminal labeled "GND" on the connector and tighten the screw terminal.
- Step 6: Repeat for each contact input and ground wire pair required (up to four total).

Terminate Contact Outputs

- Step 1: Remove the contact outputs removable screw terminal connector located on the left I/O board. Each connector is labeled for installation convenience.
- Step 2: Strip 3/16" (5mm) of insulation from the ends of each wire pair.
- Step 3: Loosen the required number of contact output (normal open) screw terminals and related ground screw terminals on the connector.
- Step 4: Insert contact output 1 into the terminal labeled "N.O.1" on the connector and tighten the screw terminal.
- Step 5: Insert the related common wire for contact output 1 into the terminal labeled "COM1" on the connector and tighten the screw terminal.
- Step 6: Repeat for each contact output and common wire pair required (up to four total).