

Appendix D

I/O Module

Hot Swap

In This Appendix. . . .

— T1K–RSSS I/O Module Hot Swap Feature

T1K-RSSS I/O Module Hot Swap Feature

The “Hot Swap” feature allows Terminator I/O modules to be replaced with Terminator I/O system power ON. Be careful not to touch the terminals with your hands or any conductive material to avoid the risk of personal injury or equipment damaged. *Always remove power if it is equally convenient to do so.*



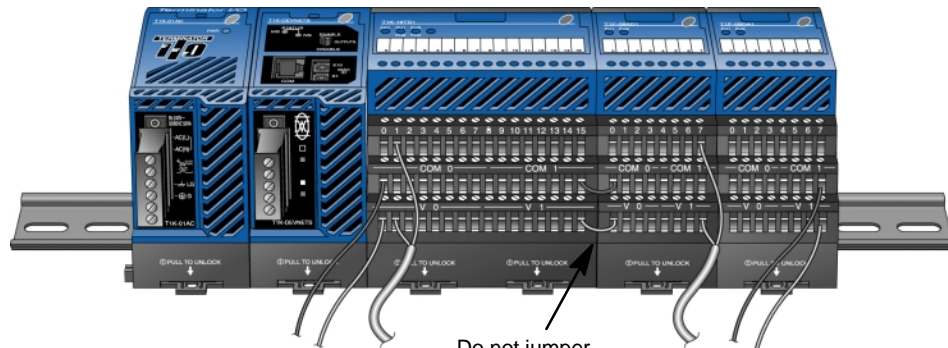
WARNING: Only authorized personnel fully familiar with all aspects of the application should replace an I/O module with system power ON.

The following module types can be “Hot Swapped”.

Module	
Power Supply	No
Base Controller	No
I/O Modules (discrete / analog)	Yes

Check External 24VDC Wiring Before Hot Swapping!

Before “Hot Swapping” an analog I/O module or a DC output module in a Terminator I/O system, make sure that each of the analog I/O and DC output module’s 24VDC and 0VDC base terminals are wired directly to the external power supply individually (see diagram below). If the external 24VDC / 0VDC is jumpered from base to base in a daisy chain fashion, and an analog I/O or DC output module is removed from its base, the risk of disconnecting the external 24VDC to the subsequent I/O modules exists.



Do not jumper modules together creating 24VDC bus for Hot Swap.

Wire each analog I/O and DC output module independently to the external power supply.

**Hot Swap:
I/O Module
Replacement**

The following steps explain how to “Hot Swap” an I/O module.

1. Remove I/O module from base. (If necessary, refer to the Terminator I/O Installation & I/O Manual for steps on removing an I/O module).
2. The T1K-RSSS I/O LED will begin to *slow blink* at 500ms on/off time. (I/O LED status information is listed on the T1K-RSSS Data Sheet and in the T1K-RSSS Features section in this manual).
3. Install a new I/O module with the **exactly the same part number**.
4. Verify that the T1K-RSSS Base Controller LEDs have returned to normal.

**Outputs
Enable/Disable
Switch**

A feature that may be used in a non-continuous process application is the Outputs Enable/Disable switch. The switch is located on the front of the T1K-RSSS base controller. When the switch is in the Disable position all outputs are disabled (OFF), although discrete and analog input data continues to be read. This option may be used at a convenient time during the process application to replace an I/O module.