

Appendix A

I/O Module

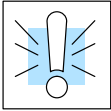
Hot Swap

In This Appendix. . . .

— T1K–MODBUS I/O Module Hot Swap Feature

T1K-MODBUS 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.*



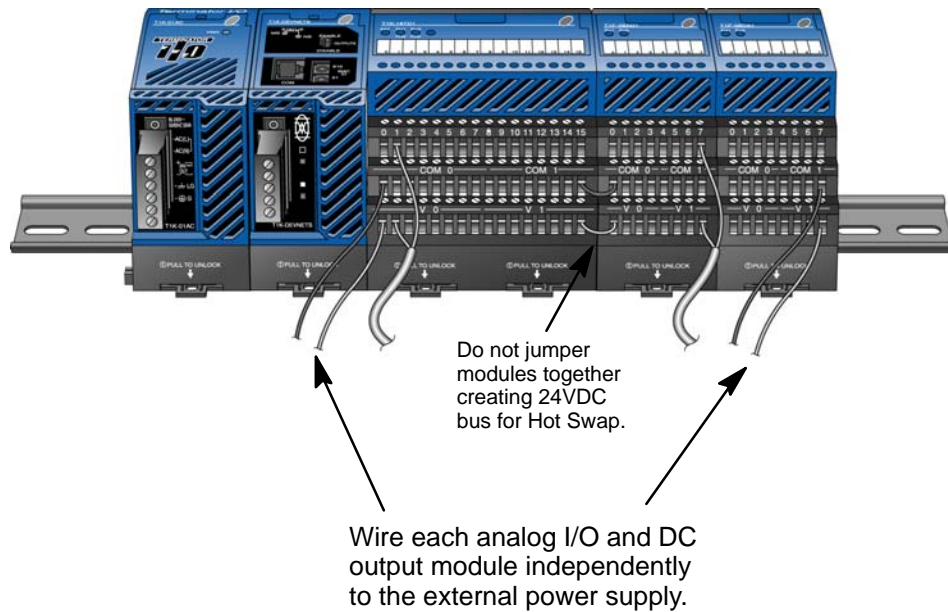
WARNING: Only authorized personnel fully familiar with all aspects of the application should replace an I/O module with system power ON.

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.



**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-MODBUS DIAG LED will turn ON.
3. Install a new I/O module with the **exactly the same part number**.
4. Verify that the T1K-MODBUS 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-MODBUS base controller. This feature may be used at a convenient time during the process application to replace an I/O module.

When the switch is in the Disable position:

- all outputs are Disabled (OFF)
- the Base Controller’s output status memory is cleared
- the Base Controller ignores any outputs command from the Master Module