

# New I/O Feature: Relay Output Test Mode

Newly released versions of the MultiFlex I/O board family and the 8ROSMT have a new feature that allows relays to be manually energized and de-energized without use of an override from a Hand-Held Terminal when the board is offline. When a MultiFlex is in Relay Output Test Mode, the output fail-safe dip switches may be used to cycle the states of the relay outputs. The feature is designed to help manufacturers of panels test output wiring quickly and easily without need for a site controller or HHT.

Relay Output Test Mode is available in the following product versions:

Board Type	Version
8RO-SMT output board	1.20F01 and above
MultiFlex 168, 88, 168AO, and 88AO combination input/output boards	1.60F01 and above
MultiFlex 168DO combination input/output boards with digital outputs	1.60F01 and above
MultiFlex 1616LAO and 1616LDO combination input/output board	1.30F01 and above
MultiFlex 1616L combination input/output board w/o analog outputs	1.20F01 and above

To activate Relay Output Test Mode for MultiFlex, set switches 1-8 on DIP Switch banks S3 and S4 to the OFF (LEFT) position. For 8ROSMT, set switches 1-8 on DIP Switch bank S1 (NETWORK) to the OFF (DOWN) position. The board will enter Relay Output Test Mode.

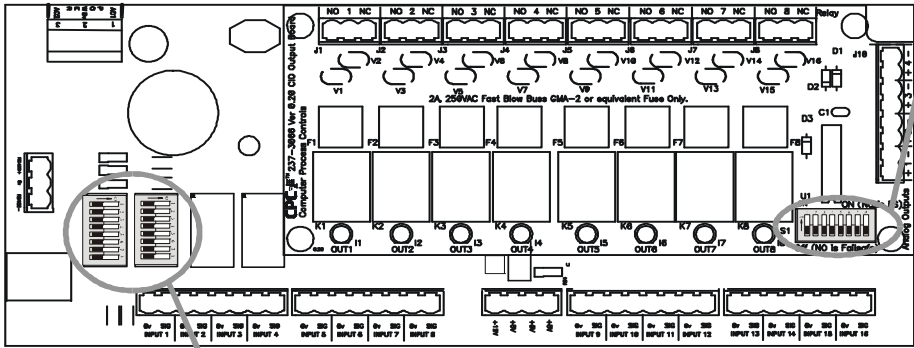
In Relay Output Test Mode, fail-safe dip switches 1-8 (located on the output board layer of MultiFlex I/O boards, and next to switch bank S1 on the 8ROSMT) can be used to change the state of the relays.

A fail-safe switch in the ON position will cause the corresponding relay to be energized (i.e. OPEN on the N.C. terminals, and CLOSED on the N.O. terminals). A fail-safe switch in the OFF position will cause the relay to be de-energized (i.e. CLOSED on the N.C. terminals and OPEN on the N.O. terminals).

The LED that shows the output state will also be ON when the switch is ON and OFF when the switch is OFF.

To exit Relay Output Test Mode, set the address switches S3 and S4 to any position other than "all OFF." The fail-safe switches will resume normal operation.

# MULTIFLEX I/O BOARD - RELAY OUTPUT TEST MODE



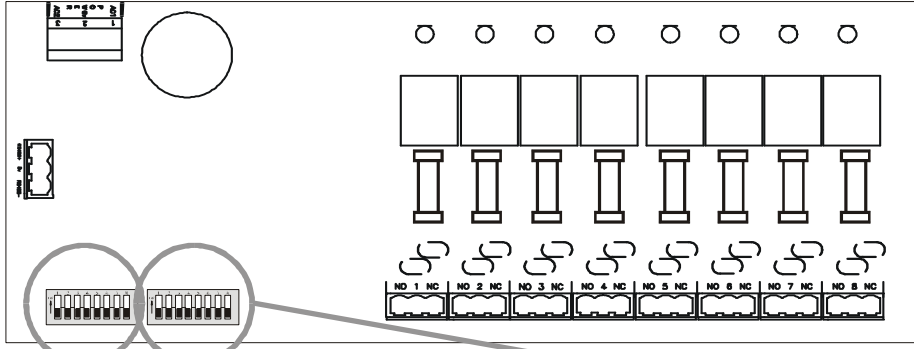
IN RELAY OUTPUT TEST MODE, FAIL-SAFE SWITCHES MAY BE USED TO TEST RELAYS.

LED OFF, N.C.=CLOSED, N.O.=OPEN

LED ON, N.C.=OPEN, N.O.=CLOSED

SET ALL SWITCHES ON S3 & S4 TO OFF POSITION (LEFT) TO ENABLE RELAY OUTPUT TEST MODE

# 8ROSMT - RELAY OUTPUT TEST MODE



IN RELAY OUTPUT TEST MODE, FAIL-SAFE SWITCHES MAY BE USED TO TEST RELAYS.

LED OFF, N.C.=CLOSED, N.O.=OPEN

LED ON, N.C.=OPEN, N.O.=CLOSED

SET ALL SWITCHES ON S1 TO OFF POSITION (DOWN) TO ENABLE RELAY OUTPUT TEST MODE

Visit our website at [copeland.com/en-us/products/controls-monitoring-systems](http://copeland.com/en-us/products/controls-monitoring-systems) for the latest technical documentation and updates. For Technical Support call 833-409-7505 or email [ColdChain.TechnicalServices@Copeland.com](mailto:ColdChain.TechnicalServices@Copeland.com)