

Limited Warranty

In no event shall Secutron be liable for any direct, indirect or consequential damages, loss of anticipated profits, loss of time or any other losses incurred by the buyer in connection with the purchase, installation or operation or failure of this product.

Important!

Secutron recommends that the entire system be completely tested on a regular basis. However, despite frequent testing and due to but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.



LT-2028 Rev. 1

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INSTALLATION INSTRUCTIONS



MR-2801B Reverse Polarity/ Municipal Box Module

The MR-2801 Reverse Polarity/Municipal Box Module is jumper programmable for polarity reversal operation or Municipal Box operation, Single or Separate Alarm and AC Fail delay.

Parts List

- Qty 1 ... MR-2801B module
- Qty 4 ... KEP nuts, 4 spacers
- Qty 1 ... 4 pin polarized locking cable assembly
- Qty 6 ... Jumpers (on PCB)

Specifications

Module Specifications

- Standby... 20mA
- Alarm ... Municipal Box Mode = 250mA momentary
- Alarm ... Reverse Polarity Mode = 35mA + load on relay (10mA each)

Municipal Box Output (for use with local energy type (series) master box)

- Maximum Voltage ... 28VDC
- Supervisory Current ... 2mA
- Power Limited Output
- Trip Current ... 1 second momentary @ 250mA (subtracted from AUX power)
- Maximum Wire & Coil Resistance ... 20Ω total

Reverse Polarity Outputs

- Maximum Voltage ... 28VDC
- Maximum Current ... 10mA
- Power Limited ... Yes
- Maximum Loop Resistance ... 2200Ω

NOTE: This component must be included in the control panel battery calculation. Refer to the Standby Battery Calculation Sheet (PN# 29005850) included with the control panel.

Installing the MR-2801 Module

The MR-2801 module mounts on 4 threaded studs located in the MR-2602/2605 Fire Alarm Control Unit panel below the power transformer. Refer to Figures 1, 2 & Table 1.

1. Configure Jumpers for desired operating modes.
2. Insert spacers on studs.
3. Position the MR-2801 Module on the 4 threaded studs. Secure the module to the studs with 4 KEP nuts (provided).
4. Insert the 4-wire Secur-Bus connector into the RPMB Dialer connector located on the MR-2602/2605 Fire Alarm Unit Control board.
5. Route 14-18 AWG Hookup Wire through the panel access holes in accordance with local regulations. Secure wire connections to output terminals as required.
6. Refer to MR2602 or MR2605 *Installation Manual* for programming details.

MR-2801B

Reverse Polarity/ Municipal Box Module

LED Label	Function
WDOG	Flashes when module is active.
DIS	Active when disconnect switch has been activated.
M-BOX	Active when there is an open circuit on that output (when M-BOX option is enabled).
BUS	Turns on when communications stops between module and panel.
ALM, SUP, TRB	Not used.
PWR	Not used.

Action	Function
Press	Activates test lamp.
Press & hold	Activates disconnect mode (LED activates)

When servicing the panel or module, activating the disconnect switch disables the outputs so that no false data will be sent to the receiving station.

Option	Jumper Settings	Function
AC Delay	P1 P2	
	Off Off	NO AC fail delay
	On Off	6 Hr AC fail delay
	Off On	12 Hr AC fail delay
On On	24 Hr AC fail delay	
Module Configuration	P3 - Off	Municipal Box Output enabled - Polarity Reversal disabled
	P3 - On	Polarity Reversal enabled - Municipal Box Output disabled
Polarity Reversal Output Options	P4 P5 P6	
	On Off Off	During an Alarm event the Alarm output reverses polarity During a Supervisory event the Supervisory output reverses polarity During a Trouble event the Trouble output reverses polarity
	Off Off Off	During an Alarm event the Alarm output reverses polarity During a Supervisory event the Alarm output disconnects (no voltage) During a Trouble event the Trouble & Supervisory outputs do not change states
	Off Off On	During an Alarm event the Alarm output reverses polarity During a Supervisory event the Alarm output disconnects During a Trouble event the Alarm output disconnects, the Trouble & Supervisory outputs do not change states
	Off On Off	During an Alarm event the Alarm output reverses polarity During a Supervisory event the Supervisory output reverses polarity During a Trouble event the Trouble output does not change states
	Off On On	During an Alarm event the Alarm Output reverses polarity During a Supervisory event the Supervisory output reverses polarity During a Trouble event the Alarm and Supervisory outputs are disconnected, the Trouble output does not change states

Fig 1 MR-2801 Reverse Polarity/Municipal Box Module

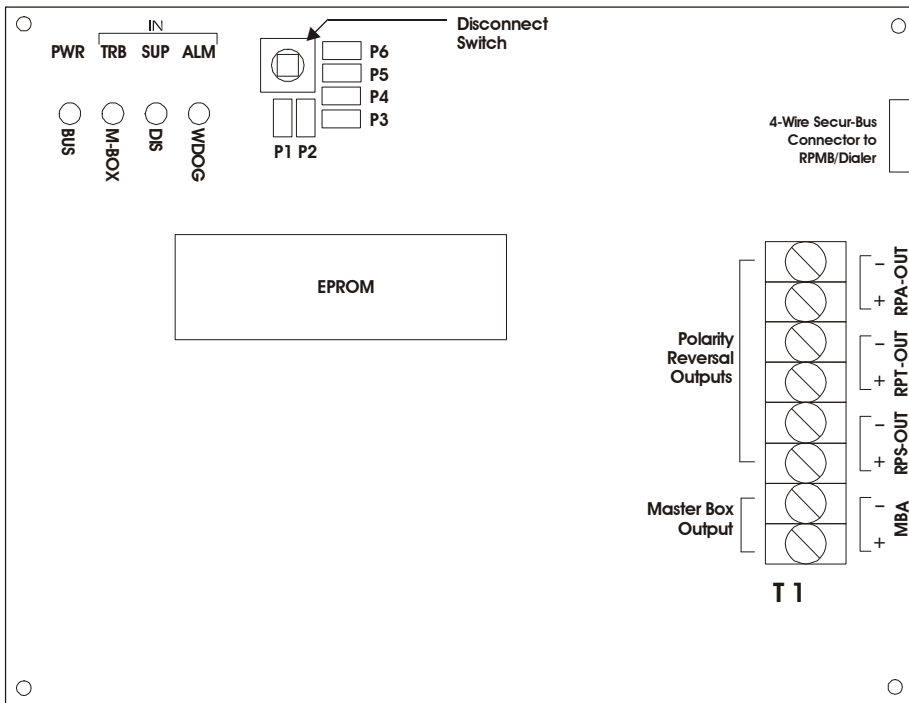


Fig 2 MR-2602/2605 Fire Panel Layout

