



NAPCO

**RP-1003U
FIRE SUPERVISION and
INDICATOR STATION**

**OPERATION and
INSTALLATION INSTRUCTIONS**

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
GENERAL DESCRIPTION AND OPERATION	1
PROGRAMMING	2
MOUNTING	2
WIRING	3

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GENERAL DESCRIPTION AND OPERATION

The RP-1003U is a monitoring station for Napco's MAGNUM ALERT-800 Series (800/800UL/800U/800S/800BAT/825), CCI-8DD and CCI-8 Alarm Control Centers. The monitoring station keeps the subscriber advised of the status of a supervised fire protection circuit and of the control panel's AC power supply. The RP-1003U also allows the subscriber to reset smoke detectors and to test the control center's standby battery before arming. The RP-1003U cannot be used as an independent fire control panel.

STATUS INDICATION

AC POWER (Yellow lamp)

- * On - AC present
- * Off - AC absent

FIRE (Red FIRE ALARM lamp)

- * Off - Normal Circuit
- * On - Fire circuit in Alarm or shorted

CIRCUIT (Red TROUBLE lamp)

- * Off - Normal circuit
- * On - Trouble

MINI-SOUNDER

- * Off - Normal
- * On - Fire Trouble
 - Fire Alarm
 - AC Power lost
 - AC Power restored

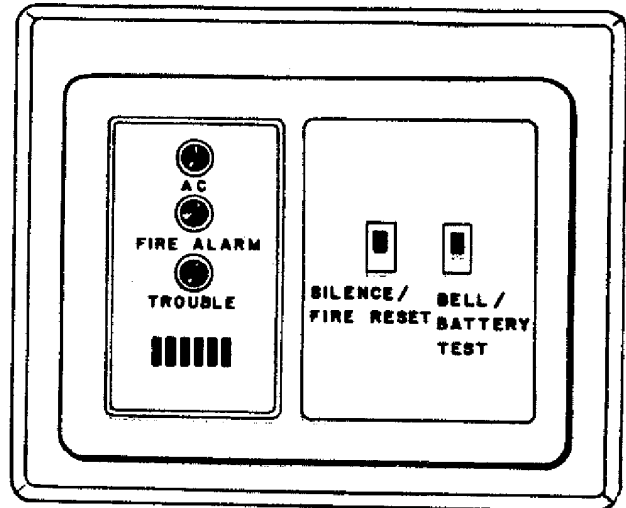


FIGURE 1: INDICATORS AND SWITCHES

STATUS STATION OPERATION

AC POWER absent (Yellow lamp off, Mini-Sounder on):

1. Push SILENCE/FIRE RESET switch down to cancel sounder.
2. Attach AC power. Sounder goes on when AC returns.
3. Push SILENCE/FIRE RESET switch down to silence sounder.

FIRE CIRCUIT TROUBLE (Red TROUBLE lamp on, Mini-Sounder on):

1. Push SILENCE/FIRE RESET switch down to cancel sounder.
2. Repair circuit. Sounder goes on when circuit fixed.
3. Push SILENCE/FIRE RESET switch down to silence sounder.

FIRE ALARM RESET (Red FIRE ALARM lamp, Mini-Sounder and fire alarm on):

If control center Auxiliary Zone programmed for Auto-Reset:

1. Reset fire alarm at remote station or control center.
2. Push SILENCE/FIRE RESET switch down to turn off indicators and reset smoke detectors.
3. If Red FIRE ALARM lamp and Mini-Sounder remain on:
 - a. Fire thermostat may be overheated or smoke detector may not be cleared of smoke - wait a few minutes for detector to cool or clear, then repeat steps 1 and 2.
 - b. Fire circuit may be shorted - call for service.

If control center Auxiliary Zone not programmed for Auto-Reset:

1. Push SILENCE/FIRE RESET switch down to turn off indicators and reset smoke detectors.
2. Reset fire alarm at remote station or control center.
3. If Red FIRE ALARM lamp and Mini-Sounder remain on:
 - a. Fire thermostat may be overheated or smoke detector may not be cleared of smoke - wait a few minutes for detector to cool or clear, then repeat steps 1 and 2.
 - b. Fire circuit may be shorted - call for service.

BATTERY TEST (Test once a week):

1. Disarm control center.
2. Push BELL/BATTERY TEST switch down.
3. Listen to bell: loud bell - normal battery;
weak bell - battery weak.

PROGRAMMING

(See MAGNUM ALERT-800, CCI-800, CCI-8 Programming Instructions.)

If the Auxiliary Zone is not programmed for Auto-Reset, you must push the SILENCE/FIRE RESET switch to reset fire detectors before resetting the fire alarm at a remote station or at the control center. Therefore, it is preferable to program the Auxiliary Zone as Auto-Reset. To program the Auto-Reset feature for a MAGNUM ALERT-800 Series, CCI-800 or CCI-8 Auxiliary Zone :

1. Select Auto-Reset for Auxiliary Zone in location 089.
2. Select Timed Alarm Output for Auxiliary Zone in location 107.
3. Select an Alarm Time Out period in locations 126-127.

MOUNTING

MOUNTING ON CONTROL CENTER DOOR

1. Use screwdriver to remove knock-out in front door of control center. (Figure 2.)
2. Remove RP-1003U cover by lifting with screwdriver inserted in slot provided. (Figure 3.)
3. Align mounting holes on RP-1003U with mounting slots in control center door.
4. Secure in place with #6 screws and nuts. (Figure 4.)
5. Replace cover.

NOTE: There are two brackets on the back of the RP-1003U, beneath the circuit board, for securing strain-relief ties.

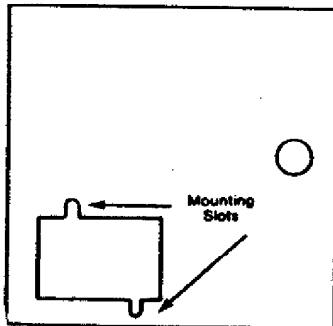


FIGURE 2

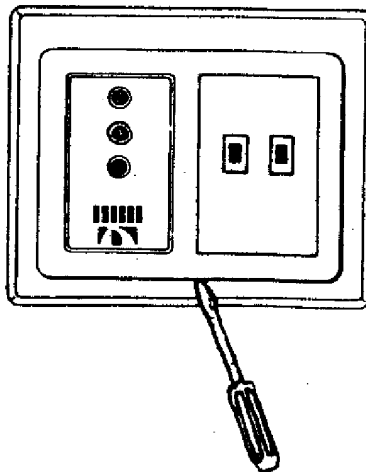


FIGURE 3

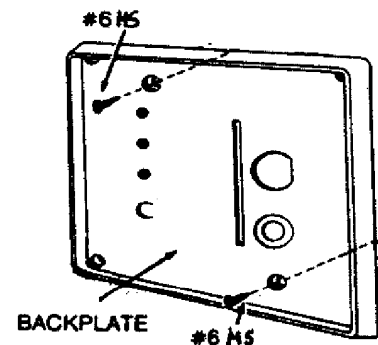


FIGURE 4

WIRING THE RP-1003U TO MAGNUM ALERT-800, CCI-800, CCI-8 CONTROL CENTERS

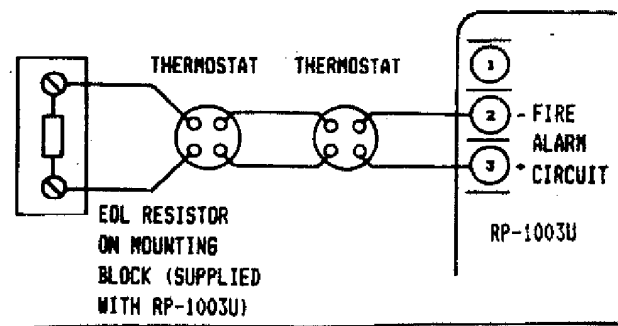


FIGURE 5: USING THERMOSTATS ONLY

WIRING NORMALLY OPEN FIRE CIRCUITS

Figure 6A shows connections for typical MAGNUM ALERT-800 Series CCI-800, or CCI-8 installations. Table 6B and the NOTES explain wiring options for these control centers in detail.

Follow installation instructions accompanying separately purchased fire detection devices to be interfaced with Napco's RP-1003U monitored system. All fire sensors should be wired in parallel with no branch system. Power for the smoke detectors comes from the Auxilliary DC power of the control center through the RP-1003U.

The fire protection circuitry uses an "end-of-line" (EOL) resistor to provide supervision. A 787-ohm EOL resistor and mounting block are provided with the RP-1003U. If using a fire circuit with only thermostats, the 787-ohm EOL resistor must be wired between the two terminal screws and the mounting block (Figure 5).

The FT279 (Figure 6A) is a terminating and power loss detector module for use with powered smoke detectors monitored by an RP-1003U. A relay within the module is energized by the voltage supplied to the smoke detectors. Contacts of the relay, which are connected in series with an internal end-of-line resistor, will open if the voltage is removed, breaking the supervised smoke detector loop and causing the RP-1003U Mini-Sounder and TROUBLE light to go on. Do not use the separate 787-ohm resistor and mounting block when connecting an FT279 module.

Thermostats may be mixed with the powered detectors (Figure 6A).

LUG CONNECTIONS BETWEEN RP-1003U AND CONTROL CENTER

Attach Red wire ending in Female Lug, originating from the control center circuit board, to Male Lug located on RP-1003U circuit board. Attach Red wire ending in Female Lug, originating on the RP-1003U to Positive (+) Male Battery Lug. The Mini-Sounder will sound if the RP-1003U is connected to the DC battery before AC power is applied. Push the SILENCE/FIRE RESET switch down to silence the sounder, apply AC power and push the switch again when the Mini-Sounder comes on again.

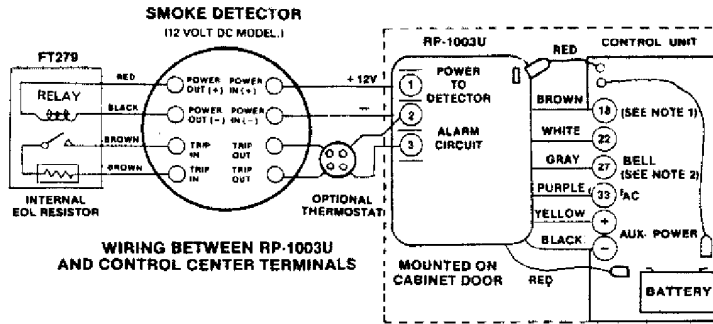


FIGURE 6A: SUPERVISED POWERED DETECTOR CIRCUIT WITH FT279

NOTES:

RP-1003U FIRE SUPERVISION and INDICATOR STATION		MA-800 SERIES, CCI-800, CCI-8	
FUNCTION	WIRE COLOR	TERMINAL	LABEL
Fire Circuit Trouble	Brown	18(1)	Zone 4
Fire Alarm	White	22	N/O Aux Input
Bell/Battery Test	Gray	27 or 29(2)	Alarm Out 2 (+)
12 Volt Power for Fire Detection Devices and Status Station	Yellow	31 27	Aux Out (+)
	Black	32 28	Aux Out (GND)
AC Sensing	Purple	33	16 VAC

- (1) For optional communicator Fire Trouble reporting:
 - (a) Connect brown wire to control center terminal 18.
 - (b) Use Zone 4 for reporting only. Program as 24 Hour.
 - (c) If using EOLR-8, do not connect grey EOLR-8 wire to control center terminal 18.
- If fire trouble transmission not used (example: CCI-8), do not connect RP1003U brown wire to control center.

- (2) If using one bell for both Burglary/Fire (Steady/Pulsing), or if using an MA-800S or MA-825, connect gray RP-1003U wire to terminal 29 of the control center.

TABLE 6B: WIRING BETWEEN RP-1003U AND CONTROL CENTER