

INSTALLATION INSTRUCTIONS FOR MODEL URMT TEMPORAL 3 CODING MODULE

SAFETY MESSAGE

People's lives depend on your safe installation, test, operation, and maintenance of our products. Read, understand, and follow all safety messages and instructions. Refer to "Safety Messages for Equipment Used in Fire-Protective Signaling Systems" and any other documentation shipped with equipment before performing any system related duty.

System wiring and device installation must be in accordance with all applicable national codes (including NFPA 70 National Electric Code), all local codes, and the authority having jurisdiction.

I. GENERAL.

The URMT is a polarized Temporal 3 Coding module for use on DC horn and also speaker notification appliance circuits. The URMT operates using 12 or 24 VDC. The coding module is available in one or two circuit models. The URMT is fail-safe in that if it should fail or drop from the circuit, supervision will not be affected and upon alarm all appliances would function in a steady, rather than a Temporal 3 output.

A visual indication of the relay being energized is provided by a green LED being illuminated. The silent cycle of the Temporal 3 Coding occurs when the LED is illuminated.

URMT-1: Single circuit Temporal 3 coding module
 URMT-2: Dual circuit Temporal 3 coding module

Input: 12/24VDC
 Current Draw (URMT-1): 0.049A
 Current Draw (URMT-2): 0.069A
 Contact Ratings (0.6 PF): 8A@30VDC

Refer to the FACP and/or NAC expander documentation for maximum line impedance and other ratings that may apply.

II. INSTALLATION.

NOTE

The URM/URMT modules are to be used with a UL864 Listed Fire Protective Signaling System fire alarm control panel and/or NAC Expander. Only power-limited NAC outputs of these units are to be connected to the relay contacts of the URM/URMT.

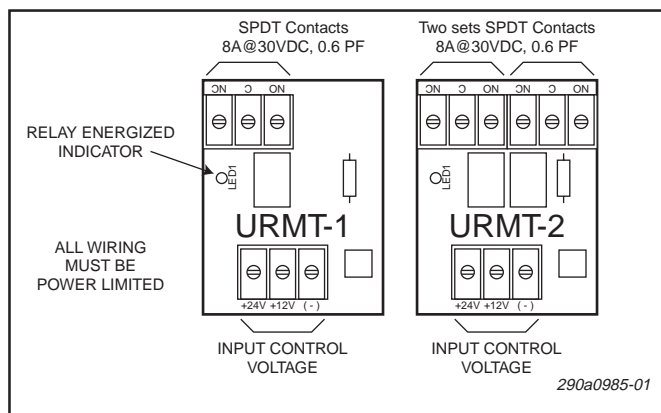


Figure 1. Available URMT configurations.

A. Mounting

The URMT is intended to be part of a supervised Fire-Protective Signaling System. The unit **MUST** be installed within a Listed enclosure, and the conductors that interconnect the URMT to the fire alarm control unit must be installed in not more than 20-feet of conduit, or equivalent protection from mechanical injury.

Cabinets are available in the following sizes:

Relay Enclosure (CPG #MR-1)	2" x 2" x 4"
ULFB1 (CPG #ULFB1)	12" x 12" x 4"

CAUTION

Positive mounting is dependent on the use of the supplied sheet metal screws. Adhesive pads are to assist in positioning the snap-trac in the user-supplied Listed Control Unit cabinet. Ensure that snap-trac and mounting surface are clean and dry before affixing adhesive pads. If necessary, clean surfaces with an isopropyl alcohol pad.

1. Using the snap-trac as a template, drill two 5/32 inch diameter holes in the Listed Control Unit cabinet.

2. Peel the paper backing from the adhesive pad attached to the snap-trac. Position the snap-trac and press it firmly in place.

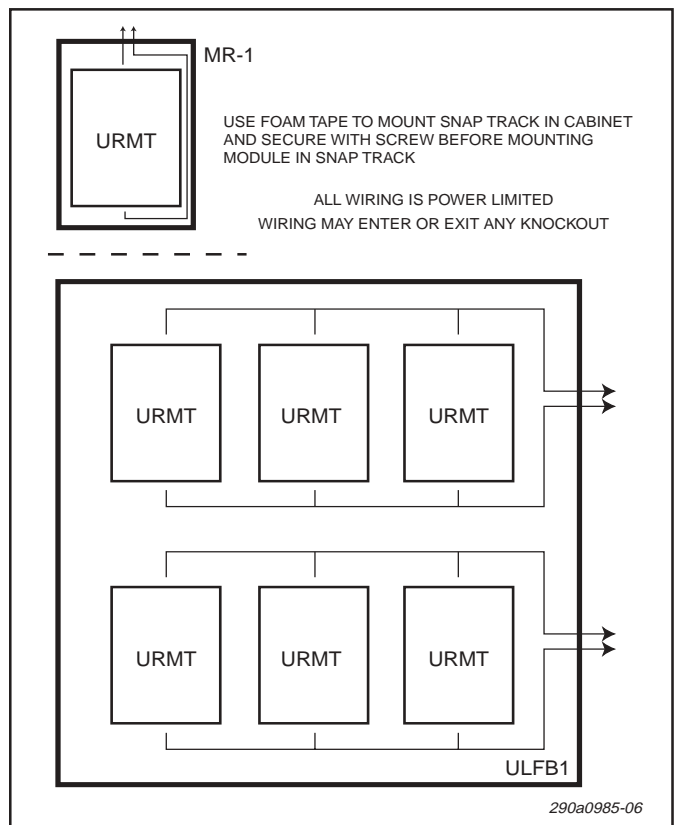


Figure 2. Mounting in MR-1 and ULFB1 enclosures..

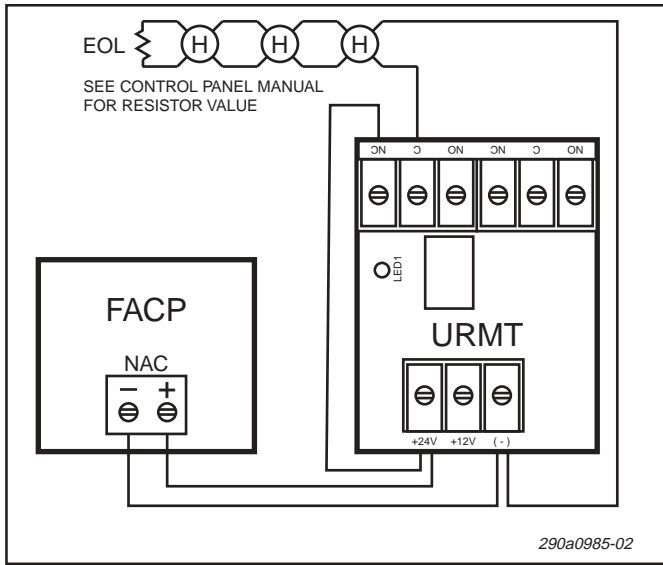


Figure 3. Single Style Y NAC using URMT-1
(use URMT-2 for dual Style Y NACs).

3. Secure the snap-trac in position with the #10 sheet metal screws.

4. Snap the URMT into position on the snap-trac.

B. Electrical Connections.

IMPORTANT

All connections are supervised by the Fire Alarm Control Panel or other supervising equipment. The End-of-Line (EOL) resistors shown are provided by the Fire Alarm Control manufacturer.

All circuits connecting to the module must be power limited.

1. See Figure 3 for typical system wiring when the Fire Alarm Control unit is capable of providing current for the entire Fire-Protective Signaling System.

2. See Figure 4 for typical system wiring when one or more Listed NAC expanders for Fire-Protective Signaling systems are required.

3. See Figure 5 for typical system wiring when one or more Listed NAC expanders and a master / slave relationship using a URMT and one or more URMs for Fire-Protective Signaling systems.

NOTE

Supervisory condition current is provided by the fire alarm control unit's continuous panel output. Alarm condition current is provided by the fire alarm control unit's polarity reversing signal circuit output.

III. SYSTEM TEST.

Refer to the instructions included with the fire alarm control unit for trouble condition indications. To clear trouble condition indications, some systems may require a manual trouble reset after each test. After electrical connections are complete, test the system as follows:

1. Apply power to the Fire Alarm Control Unit and all other Listed power supplying devices. If connections are correct, no zone or system troubles will be indicated on the fire alarm control unit.

2. An open in the Fire-Protective Signaling System must activate a system trouble on the fire alarm control unit. Test the output from the URM(T) by lifting the wire on the normally closed (NC) terminal on all URM(T)s. Look for a system trouble on the fire alarm control unit. Replace the wire on the NC terminal to clear the trouble. Some systems may require a manual reset to clear the system.

3. If the fire alarm control unit or NAC expander (if used) has ground fault detection capability and is being used to power the URM(T), test for ground fault detection. Place a jumper wire between earth ground and NC terminal of the URM(T). Look for a system trouble or a ground fault trouble on the fire alarm control unit. Remove the jumper to clear the ground fault condition. Some systems may require a manual reset to clear the condition.

IV. MAINTENANCE.

Testing should be periodically performed. Refer to NFPA 72, local fire codes and the authority having jurisdiction.

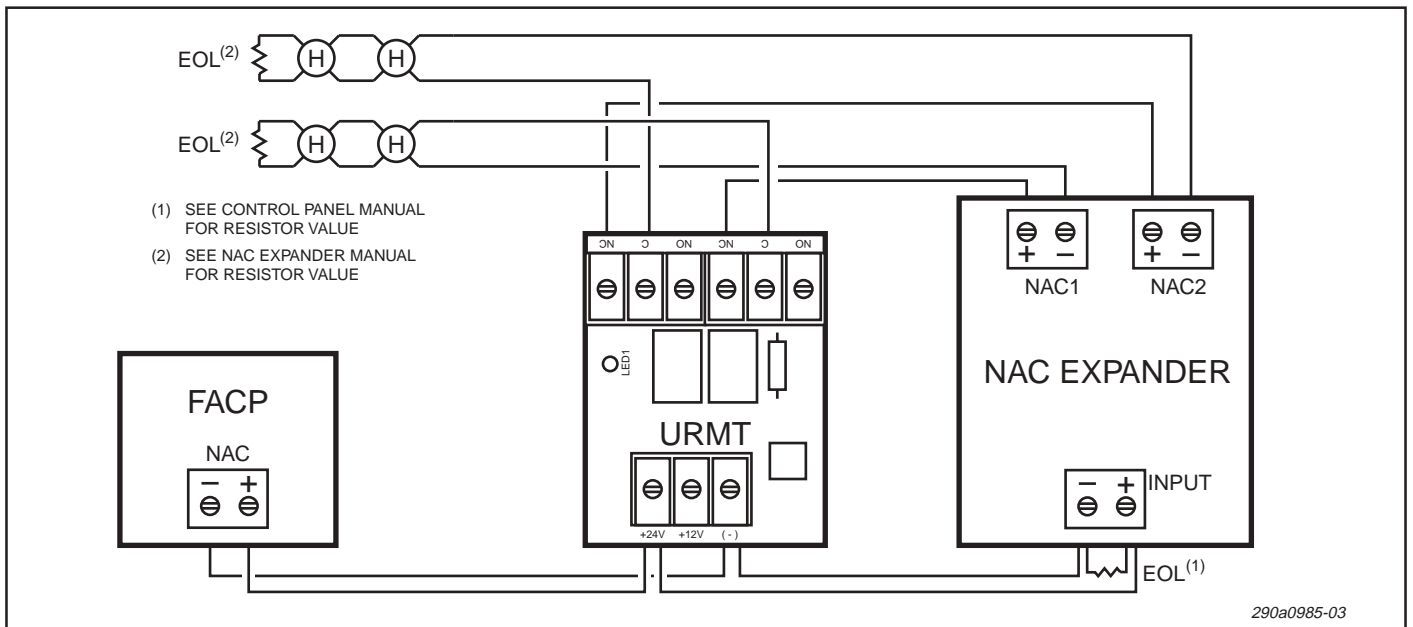


Figure 4. Dual Circuit Style Y NAC using URMT-2 and Power Booster.

V. SERVICE.

The factory will service your equipment or provide technical assistance with any problem that cannot be handled locally with satisfaction or promptness.

If any unit is returned to factory for repair, it can be accepted only if we are notified by mail or phone in advance of its arrival. Such notice should clearly indicate service requested and give all pertinent information regarding nature of problem and, if possible, its cause.

Communications and shipments should be addressed to:

Service Department
 Commercial Products Group
 1130 Milepost Drive
 Columbus, Ohio 43228
 800-521-8219 • FAX 614-870-6975

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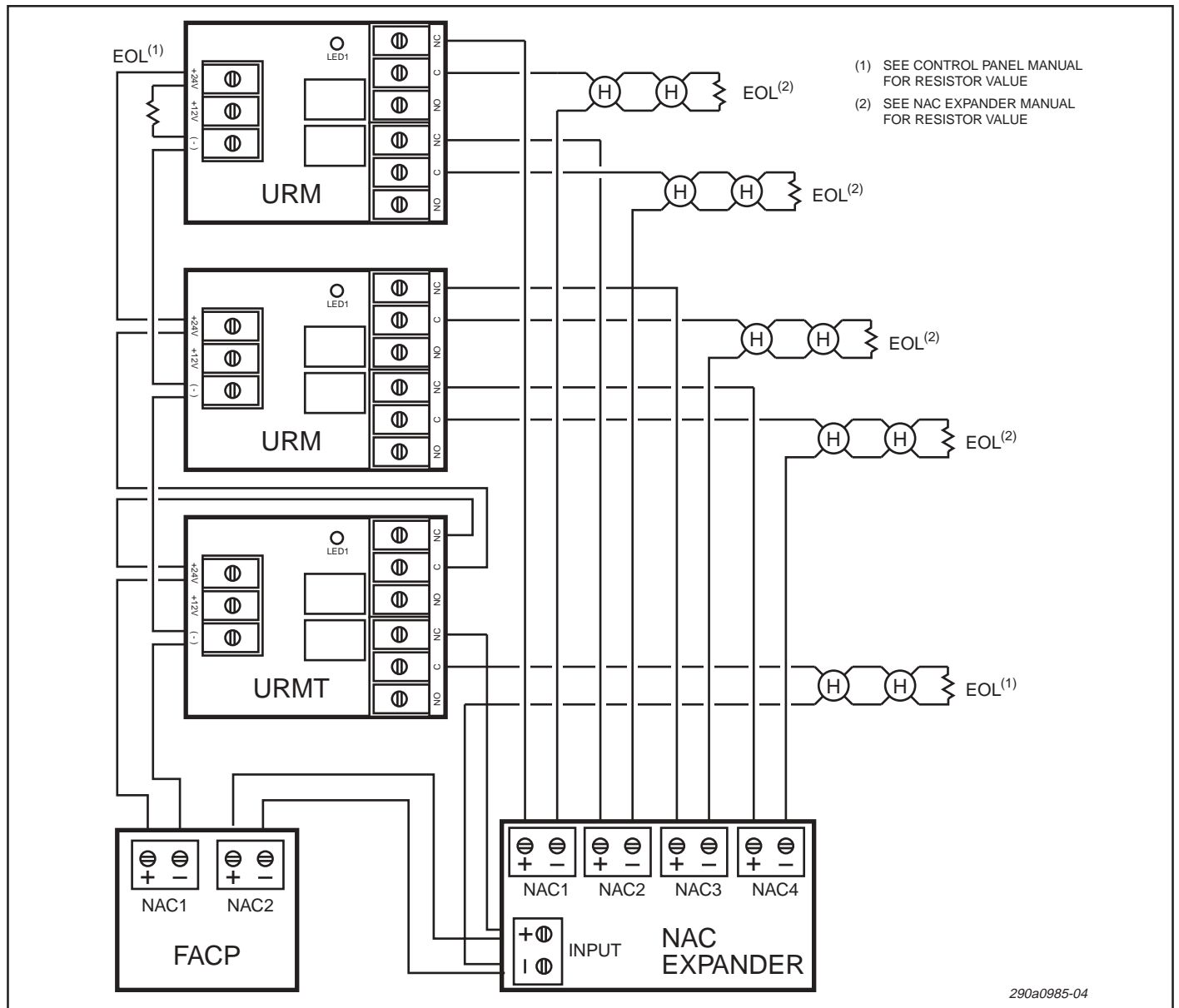


Figure 5. Multiple NAC circuits using master/slave configuration.