

156-6975-0(

# **TR-CONTROL Supervised Control Module**

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#### **SPECIFICATIONS**

Normal Operating Voltage:	15 to 32 VDC			
Maximum Current Draw:	Current Draw: 6.5 mA (LED on)			
Average Operating Current:	375µA (LED flashing - in group poll mode)			
	350µA (LED flashing - in direct poll mode)			
	485µA Max. (LED flashing, NAC shorted)			
Maximum NAC Line Loss:	4 VDC			
Reg. Ext. Supply Voltage:	(between Terminals T10 and T11)			
Maximum (NAC):	Regulated 24VDC			
Drain on External Supply:	1.7 mA Maximum (using 24 VDC supply)			
Max. NAC Current Ratings:	For class B wiring system, 3A; For class A wiring system, 2A			
Temperature Range:	32°F to 120°F (0°C to 49°C)			
Humidity:	10% to 93% Non-condensing			
Dimensions:	4.675" H x 4.275" W x 1.4" D (11.88 cm H x 10.86 cm W x 3.175 cm D)			
	(Mounts to a $4"/10.16$ cm square by $2\frac{1}{8}"/5.4$ cm deep box.)			
Accessories:	TR-SMB500-WH Electrical Box			

#### **RELAY CONTACT RATINGS**

CURRENT RATING	MAXIMUM VOLTAGE	LOAD DESCRIPTION	APPLICATION
2 A	25 VAC	PF = 0.35	Non-coded
3 A	30 VDC	Resistive	Non-coded
2 A	30 VDC	Resistive	Coded
0.46 A	30 VDC	(L/R = 20ms)	Non-coded
0.7 A	70.7 VAC	PF = 0.35	Non-coded
0.9 A	125 VDC	Resistive	Non-coded
0.5 A	125 VAC	PF = 0.75	Non-coded
0.3 A	125 VAC	PF = 0.35	Non-coded

#### **BEFORE INSTALLING**

This information is included as a quick reference installation guide. Refer to the control panel installation manual for detailed system information. If the modules will be installed in an existing operational system, inform the operator and local authority that the system will be temporarily out of service. Disconnect power to the control panel before installing the modules.

NOTICE: This manual should be left with the owner/user of this equipment.

#### **GENERAL DESCRIPTION**

TR-CONTROL Supervised Control Modules are intended for use in intelligent, two-wire systems, where the individual address of each module is selected using the built-in rotary switches. This module is used to switch an external power supply to notification appliances. It also supervises the wiring to the connected loads and reports their status to the panel as NORMAL, OPEN, or SHORT CIRCUIT. The TR-CONTROL has two pairs of output termination points available for fault-tolerant wiring and a panel-controlled LED indicator.

## **COMPATIBILITY REQUIREMENTS**

To ensure proper operation, this module shall be connected to a compatible Triga system control panels only (list available from Triga).

#### MOUNTING

The TR-CONTROL mounts directly to 4" (10.16 cm) square electrical boxes. (See Figure 2A.) The box must have a minimum depth of 21/8" (5.4 cm). Surface mounted electrical boxes TR-SMB500-WH are available. The module can also mount to the TR-DNR(W) housing.

## WIRING

NOTE: All wiring must conform to applicable local codes, ordinances, and regulations. When using control modules in nonpower limited applications, UL requirements for the separation of power-limited and nonpower-limited terminals and wiring must be met. The barrier must be inserted into a  $4" \times 4" \times 2\frac{1}{8}"$  (10.16 cm x 10.16 cm x 5.4 cm) junction box, and the control

module must be placed into the barrier and attached to the junction box. (See Figure 2A.) The power-limited wiring must be placed into the isolated quadrant of the module barrier. (See Figure 2B.)

- Install module wiring in accordance with the job drawings and appropri-1 ate wiring diagrams.
- 2. Set the address on the module per job drawings.
- 3. Secure module to electrical box (supplied by installer), as shown in Figure 2A.

Wire should be stripped to the appropriate length (recommended strip length is 1/4" to 3/8" (6.4 mm to 9.5 mm). Exposed conductor should be secured under the clamping plate and should not protrude beyond the terminal block area. Caution: Do not loop wire under terminals. Break wire run to provide supervision of connections.

IMPORTANT: When using the TR-CONTROL for audio applications, remove Jumper (J1) and discard. The Jumper is located on the back as shown in Figure 1B. J1 must be removed whenever power supply monitoring feature is not required.

NOTE: All references to power limited represent "Power Limited (Class 2)". All references to Class A also include Class X.

## **A**WARNING

All relay switch contacts are shipped in the standby state (open) state, but may have transferred to the activated (closed) state during shipping. To ensure that the switch contacts are in their correct state, modules must be made to communicate with the panel before connecting circuits controlled by the module.





\*NOTE: ANY FAULT IN THE POWER SUPPLY IS LIMITED TO THAT ZONE AND DOES NOT RESULT IN A FAULT IN A SEPARATE ZONE.

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#### DEVICE AND SYSTEM SECURITY

Before installing this product ensure that the tamper seal on the packaging is present and unbroken and the product has not been tampered with since leaving the factory. Do not install this product if there are any indications of tampering. If there are any signs of tampering the product should be returned to the point of purchase. It is the responsibility of the system owner to ensure that all system components, i.e. devices, panels, wiring etc., are adequately protected to avoid tampering of the system that could result in information disclosure, spoofing, and integrity violation.