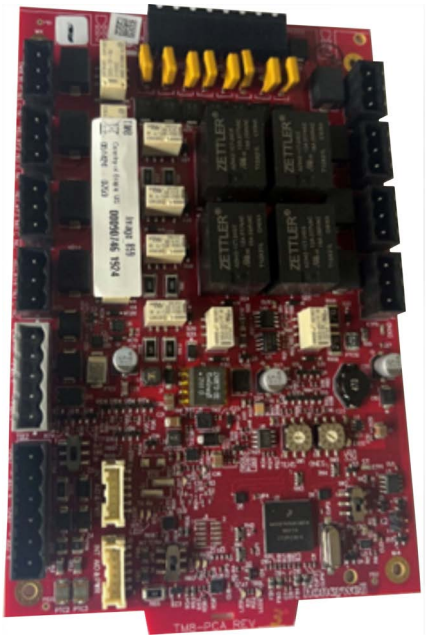
TM-8

Transmitter Modules

The TM-8 is a transmitter module that communicates on the AIO Bus (Annunciator Input/Output) for fire alarm control panels on the Gamewell-FCI Elevate™ Platform

The TM-8 Transmitter Module provides the GFP-A/GFP-AR fire alarm control panels on the Gamewell-FCI Elevate™ Platform with eight programmable Form-C relays, along with either remote station service featuring three reverse-polarity outputs (Alarm, Trouble, and Supervisory) or a single municipal fire alarm box trip output on one PC board.

The TM-8 is designed to meet NFPA 72 requirements for Auxiliary Protective Signaling Systems and Remote Station Protective Signaling Systems.



TM-8 Transmitter Modules

FEATURES AND BENEFITS

- Customizable 80-character Primary label per module.
- On each TM-8 module, either the three reverse-polarity outputs (alarm, trouble, and supervisory) or the fire municipal box trip can be used.
- Connects to the internal AIO bus and mounts inside the GFP-A/GFP-AR cabinet on the PMB's right-side option card position.
- The power run to the module does not need to contain a power supervision relay since loss of power or communication is inherently supervised through AIO communication bus.
- Diagnostic LEDs: green for Power, AIO bus Data Reception and AIO Data Transmission status; yellow for Trouble.
- Out of the three reverse polarity outputs, Remote Station Supervisory circuit can be reprogrammed for other functions using the panel programming tool.
- Remote Station Alarm circuit provides the option to combine trouble indication on the Alarm contact.
- Programmable participation in Trouble Delay for AC fail condition when using Remote Station Service.
- Programmable participation in Alarm Delay for PAS for the Remote Station Service and Master box Trip.
- Programmable option to cancel Alarm indication when signals are silenced for remote station and municipal box trip.
- Total of 8 programmable Form-C Relays:
  - Four low-current
  - Four higher current relays
- The higher current relays can also be used to switch inductive loads (0.35PF).
- The Relay 1 is predispositioned to be a fail safe trouble indication but can be reprogrammed.
- Each of the 8 relays can be mapped to activate with a local or network:
  - Event condition (i.e. fire, CO, supervisory, etc.)
  - Activation of a point (i.e. detector, module)
  - Activation of a zone (general zone, logic zone, releasing zone states, special function zone)
- Isolated 24 V for the Remote Station reverse-polarity outputs.
- Remote Station Disconnect mechanism can be initiated from the panel display. It provides a means for inhibiting alarm status changes, which cause trouble indication for unit at the FACP. Operation of the disconnect mechanism will also create a trouble condition on the reverse-polarity output circuits or the master box trip.

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MOUNTING

Mounts inside the GFP-A and GFP-AR cabinet on the right-side of the PMB. Please refer to the image in Figure: 1.

Due to the height of the terminal blocks, left-side PMB position is not supported, as the cabinet door will not close when the assembly is installed there.

Wiring options are up to 8 relays, and either remote station connections or municipal box connections.The LDM2-32/LDM2-60 with a custom graphic array may be used to indicate status, as well as control or disable output points.

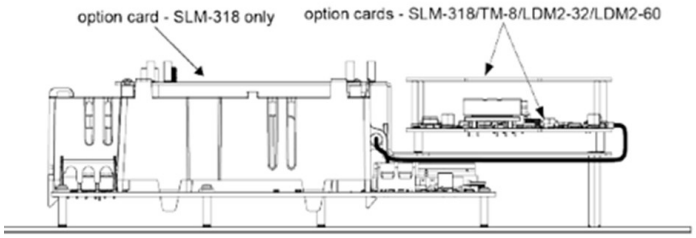


Figure: 1

WIRING CONNECTIONS

Refer to the TM-8 Transmitter Module Product Installation Document, LS10388-000GE, for diagrams and wiring information.

OPERATION HIGHLIGHTS

DIAGNOSTIC LEDS

- **POWER** (green) illuminates when power is present on the TM-8 board.
- **TROUBLE** (yellow) illuminates when AIO Trouble occurs.
- **RX AIO** (green) blinks when AIO data is received.
- **TX AIO** (green) blinks when AIO data is transmitted.

AIO RS485 INTERFACE

Communication between the FACP is accomplished over a power-limited, two-wire serial interface called the AIO Bus and can be connected to either the main or local bus.

OPTION TO COMBINE ALARM AND TROUBLE

Programming tool allows to the user to combine Alarm and Trouble conditions on Alarm Reverse-Polarity output.

DISCONNECT CAPABILITY

Panel display allows the user to disconnect the TM-8 remote station outputs inhibiting the transmission of signals to the remote monitoring station or the Master box trip except for trouble conditions.

PRODUCT LINE INFORMATION

TM-8: Panel module offers 8 programmable Form-C relays (4 low current 2A, 4 higher current 10A) and also provides either a remote station service with three reverse polarity outputs that communicate Alarm trouble supervisory messages from the FACP or a municipal box connection that would trip a local energy municipal box.

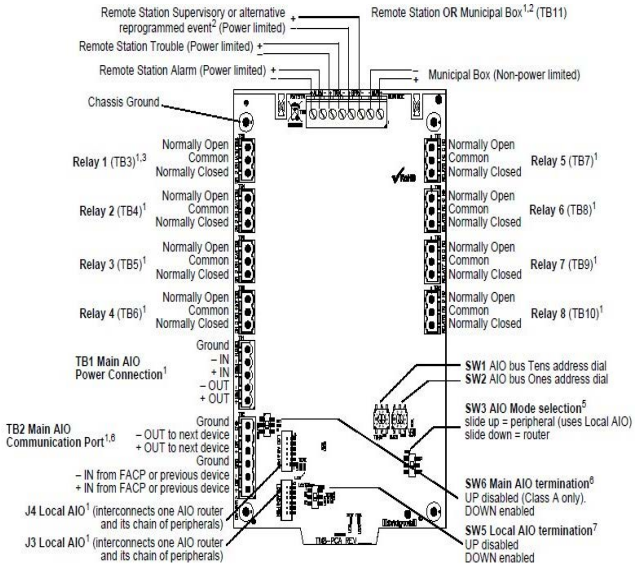


Figure: 2

TM-8 TECHNICAL SPECIFICATIONS

PHYSICAL

- Approximately 4.375" (11.11cm) wide by 7" (17.78cm) high.
- **Temperature and humidity ranges:** This system meets NFPA requirements for operation at 0°C to 49°C (32°F to 120°F); and at a relative humidity (noncondensing) of 85% at 30°C (86°F) per NFPA, and 93% ± 2% at 32°C ± 2°C (89.6°F ± 1.1°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and all peripherals be installed in an environment with a nominal room temperature of 15°C to 27°C (60°F to 80°F).

ELECTRICAL

The power source must be filtered, non-resettable, 24 VDC listed for fire-protective signaling use. Sources include FACP power supplies, auxiliary power supplies, and on-board power supplies integral to FACP.

- **Standby Current:** 81mA @ 24 VDC
- **Alarm Current:** 189mA @ 24 VDC
  -(assumes all relays energized)
- **Relays:** Eight (8) programmable relays
  - **Low-current Relays 1-4 (TB3-TB6)**
    Maximum switched current (resistive):
    2A @ 30 VDC
  - **High-current Relays 5-8 (TB7-TB10)**
    Maximum switched current (resistive):
    • 10A @ 28 VDC
    • 12A @ 125 VAC
    • 6A @ 250 VAC
    • 5A @ 277 VAC
    Maximum switched current (Inductive, 0.35 PF):
    • 2A @ 28 VDC
    • 4A @ 125 VAC
    • 2A @ 250 VAC
- **Remote Station:** Three (3) isolated reverse polarity outputs
  - Maximum current per output: 15mA
  - Voltage: 24 VDC nominal
- **Fire Municipal Box trip (Local Energy):**
  - Supervisory current: 0.023 A
  -Trip current: 0.35 A

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed**
- **FM Approved**

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