



# GENERAL MONITORS

*Protection for life.*

## MODEL FL802

### Multi-Channel Flame Detection Readout/Relay Display Module



#### Features

- Compact Packaging
- LED Readouts for Each Channel
- Common Relays
- Superior Reliability

#### Benefits

- Requires less panel or cabinet space
- Shows the status of each channel including ALARM, WARN, FAULT and RESET
- Outputs ALARM, WARN & FAULT conditions
- Longer product life

#### Description

The General Monitors Model FL802 is a compact, reliable, and versatile Multi-Channel Flame Detection Readout/Relay Display Module. The FL802 is capable of monitoring up to eight remote General Monitors Flame Detectors. Our flame detectors can be used in Class I, Division 1, Groups B, C and D areas. For the FL802, the output consists of:

#### Discrete Open Collector Outputs

- ALARM (channels 1 to 8)
- WARN (channels 1 to 8)
- FAULT (channels 1 to 8)

#### Common Relays (for all 8 channels)

- ALARM - DPDT, Latching/Non-Latching, Energized /De-Energized, 117 VAC @ 4A, 30VDC @ 3A max.
- WARN - DPDT, Latching/Non-Latching, Energized /De-Energized, 117 VAC @ 4A, 30 VDC @ 3A max.
- FAULT - SPDT, Non-Latching, Energized, 117 VAC @ 4A, 30 VDC @ 3A max.

#### Applications

- Refineries
- Drilling Platforms and Rigs
- Fuel Loading Facilities
- Compressor Stations
- Storage Areas
- Gas Collection and Distribution Facilities
- Chemical Plants
- Petrochemical Plants
- Aircraft Hangars



# MODEL FL802

## System Specifications

**Description:** Multi-Channel (up to eight)  
Flame Detection  
Readout/Relay  
Display Module

**Mounting Option:** Rack, Panel or Wall

**Classification:** General purpose, non-hazardous areas

**Warranty:** Two years

**Approvals:** CSA

## Environmental Specifications

**Operating Temperature Range:**

*FL802:* 0°F to +158°F  
(-18°C to +70°C)

*FL4000:* -40°F to +176°F  
(-40°C to +80°C)

*FL3100/3101:* -40°F to +185°F  
(-40°C to +85°C)

*FL3110/3111:* -40°F to +194°F  
(-40°C to +90°C)

*FL3102/3112:* -40°F to +167°F  
(-40°C to +75°C)

**Storage Temperature**

**Range:** 0°F to +158°F  
(-18°C to +70°C)

**Operating Humidity**

**Range:** 5% to 100% RH,  
non-condensing

## Mechanical Specifications

**Length:** 12.4 inches (315mm)

**Height:** 6.9 inches (175mm)

**Width:** 2.1 inches (53mm)

**Weight:** 2.5 pounds (1.2kg)

## Electrical Specifications

**Power:** 20-35 VDC @ 1A  
(plus .25A for each active channel)

**Common Front Panel Indications:**

AL 1 (ALARM zone 1)  
AL 2 (ALARM zone 2)  
WN 1 (WARN zone 1)  
WN 2 (WARN zone 2)

**Discrete Front Panel Indications:**

ALARM (channels 1 to 8)  
WARN (channels 1 to 8)  
READY (channels 1 to 8)  
FAULT (channels 1 to 8)  
RESET  
RELAY INHIBIT

**Input Signal:** FAULT = 0 to 0.5 mA  
READY = 4.0 ± 0.5 mA  
WARN = 16.0 ± 0.5mA  
ALARM = 20.0 ± 0.5mA

**DIP Switch Selectable Functions:**

**ZONING** (single 8 channel zone or dual 4 channel zones)

**VOTING** (one vote per zone or two votes per zone)

**ALARM TIME DELAY**  
(alarm override, 1 second, 4 seconds, 8 seconds)

**CHANNEL DISABLE** (each channel disabled individually)

**Reset:** Front panel and remote

**Standard Configuration:** FL802-1-1-2-8  
Latch alarm, non-latch warn, de-energized, single zone, one vote, 4 sec. delay, eight active channels

*Specifications subject to change without notice.*

*Represented by:*

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