



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 FL3100 (UV/IR), FL3101 (UV), and/or FL3102 (DFIR) Flame Detectors. The Models FL3100, FL3101 and FL3102 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)

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

FL3102: -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

Specifications subject to change without notice.

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