Zero Two Series

Modular components for combustible gas monitoring, toxic gas monitoring, flame detection and oxygen deficiency monitoring.

The Zero Two Series is ideal for a wide range of safety monitoring applications such as oil/gas production and petrochemical processing.

INTELLIGENT • SENSORS • SYSTEMS • SOLUTIONS
GENERAL MONITORS

GENERAL MONITORS
Protection for life.

Zero Two Series

More than forty years of experience has gone into the development of this fully integrated fire and gas detection system. Depending on how it is configured, a Zero Two Series system can monitor any combination of the following:

- Combustible gases
- H_2S
- Flame
- Toxic gases
- O_2 deficiency

The capabilities of a custom monitoring system plus modular flexibility.

In addition, its open architecture allows the system to accommodate other sensing devices for tasks such as smoke detection, heat detection and manual call points. Each Zero Two Series control module is connected to a remote sensor or detector and continuously displays the status of that location. Because the system is modular, it can easily be reconfigured or expanded as sensing requirements change. An existing module can be replaced by one of another type. A new module can be plugged into an open slot, or the system can be expanded by adding an additional 4, 8, or 16-channel chassis. A facilities module can also be included in each of the chassis. Its features include a master reset switch, an accept/acknowledge switch, an LED test feature and common alarm and fault outputs.

*A 16 -channel chassis with assorted monitors, facilitating module and optional 24 VDC power supply.**

Zero Two Series systems are extremely easy to install. The only field connections required are inputs from the sensors to the card modules and the outputs from the control/shutdown system, DCS, PLC, beacons, horns etc. General Monitors warrants all Zero Two Series components for two years.

Model TA102A

Intelligent Addressable Transmitters
Application - Combustible Gas
Type - Catalytic bead
Locations - Certified for use in hazardous areas

IR2100 Addressable Transmitter
Application - Combustible Gas
Type - Infrared Point
Locations - Certified for use in hazardous areas

Catalytic Bead Sensor
Application - Combustible Gas
Type - Catalytic bead
Locations - Certified for use in hazardous areas

Model 4802A

A single-channel trip amplifier which monitors the 0 to 22mA output from General Monitors' combustible gas detectors/transmitters.
Features include:
- Digital display scaled 0-99% LEL
- LED status indicators
- Discrete A1, A2 fault relays and open collector outputs
- Power-on, card and LED test modes
- User setup and setup check modes

A single-channel control module which processes the output signal from a General Monitors' cost-effective catalytic bead sensor.
Features include:
- Digital display scaled 0-99% LEL
- LED status indicators
- Discrete A1, A2 fault relays and open collector outputs
- Power-on, card and LED test modes
- Adjustable calibration level
- Adjustment-free calibration

Model TA202A

Intelligent Addressable Transmitters
Application - H_2S
Type - Metal Oxide Semiconductor (MOS)
Locations - Certified for use in hazardous areas

MOS Sensor
Application - H_2S
Type - Metal Oxide Semiconductor (MOS)
Locations - Certified for use in hazardous areas

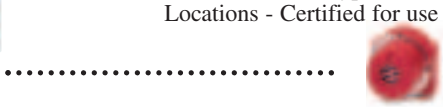
Model 2602A

A single-channel trip amplifier which monitors the 0 to 22mA output from General Monitors' H_2S gas detectors/transmitters.
Features include:
- Digital display scaled 0-20, 0-50 or 0-99ppm
- LED status indicators
- Discrete A1, A2 and fault relays and open collector outputs
- Power-on, card and LED test modes

A single-channel control module which processes the input from a General Monitors' cost-effective solid-state MOS (metal oxide semiconductor) type H_2S sensor.

Features include:
- Digital display scaled 0-20, 0-50 or 0-99ppm
- LED status indicators
- Discrete A1, A2 and fault relays and open collector outputs
- Power-on, card and LED test modes
- Adjustment-free calibration

FL3100 Addressable Transmitter
Application - Flame Detection
Type - UV/IR
Locations - Certified for use in hazardous areas

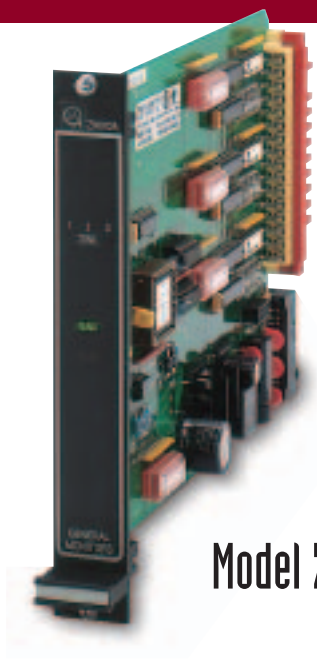


FL3101 Addressable Transmitter
Application - Flame Detection
Type - UV
Locations - Certified for use in hazardous areas

FL3102 Addressable Transmitter
Application - Flame Detection
Type - DFIR
Locations - Certified for use in hazardous areas

Model TA402A

A single-channel trip amplifier designed for use with General Monitors' FL3100 Series flame detectors.
Features include:
- Digital display for set-up
- LED status indicators
- Discrete A1, A2 fault relays and open collector outputs
- Power-on, card and LED test modes



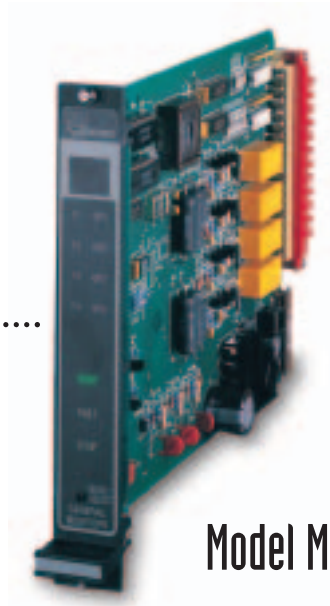
Model ZN002A

A three-zone control module expands the Zero Two system for applications requiring voting and zoning logic by providing three separate, eight input-zones with single and dual voting outputs for each zone.

Third Party Field Devices
Type - Horns, Beacons,
Heat Detectors, etc.

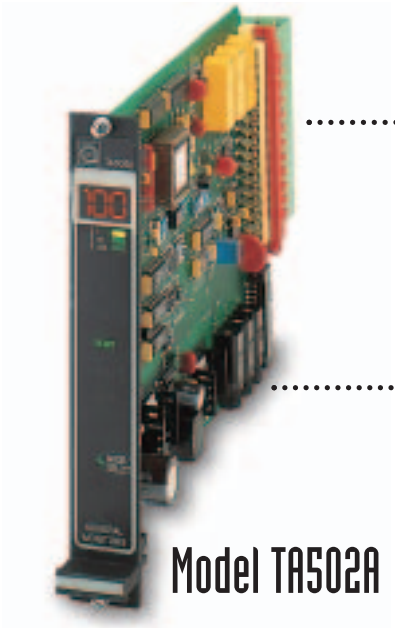
Model IN042

A four-zone input module for use with two-wire field devices such as smoke or heat detectors, pull switches and manual call-points. It provides alarm, fault and inhibit status indication and open collector outputs for each zone.
Features include:
- Four microprocessor controlled zones
- LED status indicators
- Alarm, fault and inhibit output options available per zone
- Power-on, card and LED test modes
- Reset and inhibit push buttons per zone



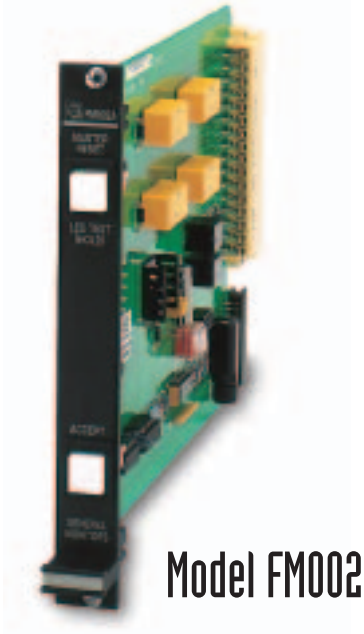
Model MD002

A monitored driver output module designed for use on outputs requiring monitoring of devices in their non-active state, such as extinguishant solenoids and electronic beacons and horns. Each driver output is independent and has circuitry to detect short and open circuits in the field wiring.



TS-Series Sensor Transmitter
Application - Toxic Gas
Type - Electro-chemical cell
Locations - Certified for use in hazardous areas

IR5000 Monitoring System
Application - Open Path Hydrocarbon Gas
Type - Infrared Absorption
Locations - Certified for use in hazardous areas



Model TA502A

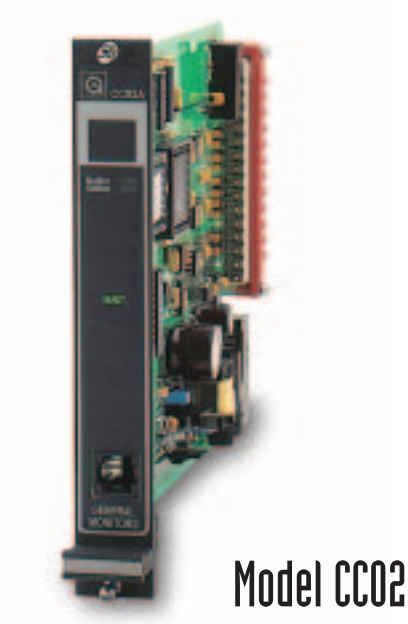
A single-channel generic trip amplifier designed for use in Zero Two Series gas and flame detection systems. This model is used to process the 0-22mA signal from any field-mounted transmitter and may also be used to provide power to such a device.

Model FM002A

A facilities module which provides common alarm and fault outputs for all modules in its chassis. Also included are switches for resetting latched alarms and accepting (acknowledging) alarms.
Features include:
- LED test feature
- Discrete relays for A1, A2, fault, unaccept
- Open collectors for A1, A2, fault, calibration

Model RL002

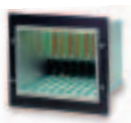
The RL002* relay module accepts open collector inputs from other modules and provides four additional DPDT relay contacts, as well as a 2 amp solenoid driver for expanded output capabilities.



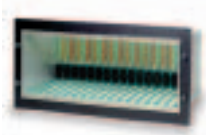
Model CC02A

The CC02A Communications Card allows an external host computer to communicate with General Monitors' Zero Two systems. The Module acts as a bridge between the 02A system bus and the RS-485 based MODBUS RTU host interface, implementing the necessary protocol conversions and error check routines. Front and rear RS-232 based ports allow ease of set-up and maintenance independent of host traffic. The RS-232 port can interface to a local (host) computer for set-up and monitoring purposes, with a future possibility to add a port for data logging. Additional CC02A devices may be used in a system to increase fault tolerance.

4-channel chassis



8-channel chassis



16-channel chassis

** Not available in Europe.*

Global Service Anytime, Anywhere

No matter where you are, 24-hour technical service and support is available from General Monitors. The company has two manufacturing and six sales and service facilities located strategically worldwide for efficient support.

- **Lake Forest, California**
- **Houston, Texas**
- **Republic of Ireland**
- **Singapore**
- **United Arab Emirates**
- **United Kingdom**

Quality Commitment

General Monitors brings its reputation for quality and reliability to the gas and flame detection market. General Monitors is ISO 9001:2000 certified, utilizing continuous process improvement (CPI) quality programs.

GENERAL MONITORS

Protection for life.

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