Zero Two Series

Modular Gas and Flame Detection System

SAFEGUARDING PEOPLE, PLACES & THE PLANET.

The Capabilities of a Custom Monitoring System Plus Modular Flexibility

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

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

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

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.

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. Zero Two Series components come with a two year warranty.

An 8-channel chassis with assorted monitors, facilitating module and optional 24 VDC power supply.*

* Not available in Europe.

Model TA102A

A single-channel trip amplifier which monitors the 0 to 22 mA output from a General Monitors combustible gas detector/transmitter.

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

General Monitors® S5000 Gas Monitor	
APPLICATION	Combustible gas
TYPE	Catalytic bead
LOCATIONS	Certified for use in hazardous areas

Model 4802A

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

Catalytic Bead Sensor	
APPLICATION	Combustible gas
TYPE	Catalytic bead
LOCATIONS	Certified for use in hazardous areas

Model TA202A

A single-channel trip amplifier which monitors the 0 to 22 mA output from a General Monitors H_2S gas detector/transmitter.

Features include:

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

Intelligent Addressable Transmitters	
APPLICATION	H_2S
TYPE	Metal oxide semiconductor (mos)
LOCATIONS	Certified for use in hazardous areas

Model TA402A

A single-channel trip amplifier designed for use with any General Monitors flame detector.

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

FL5000 Flame Detector	
APPLICATION	Flame detection
TYPE	Multi-spectrum infrared (MSIR)
LOCATIONS	Certified for use in hazardous areas

FL500 Flame Detector	
APPLICATION	Flame detection
TYPE	UV/IR
LOCATIONS	Certified for use in hazardous areas

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

Third Party Field Devices	
TYPE	Horns, beacons, heat detectors, etc.

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 0-22 mA signal from any field-mounted transmitter and may also be used to provide power to such a device.

S5000 Gas Monitor	
APPLICATION	Toxic gas
TYPE	Electrochemical cell
LOCATIONS	Certified for use in hazardous areas

IR5500 Monitoring System	
APPLICATION	Open path hydrocarbon gas
TYPE	Infrared absorption
LOCATIONS	Certified for use in hazardous areas

The Safety Company

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 CC02A

The CC02A Communications Card allows an external host computer to communicate with a General Monitors Zero Two system. 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.
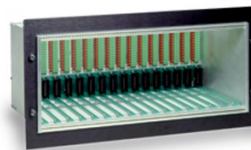
Chassis Sizes

4-channel chassis

8-channel chassis

16-channel chassis

sales@norrscope.com