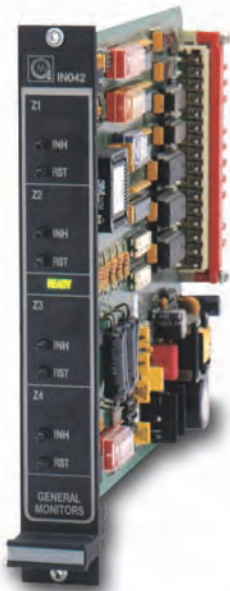




**GENERAL MONITORS**  
Protection for life.

# MODEL IN042

## Four-Zone Input Module



### Features

- RS-485 Serial Communications
- Four Independent Detector Zones
- LED Status Indication per Zone
- Open Collector Alarm & Fault Outputs per Zone
- Operation Modes

### Benefits

- Remote set-up and interrogation via General Monitors' Model CC02A Communications module
- More available inputs
- Provides visual indication of fault and status
- Multiple outputs for multi-function use
- Increased operator flexibility

### Description

The General Monitors Model IN042 is a four-zone input module that has been designed for use with two wire field devices such as smoke or heat detectors, pull switches and manual callpoints. It is designed to monitor these devices and provide both status indication and fault/alarm outputs for each zone.

Features of the IN042 are LED indications of zone status, as well as fault and alarm open collector outputs for each zone. Each zone also has its own reset/inhibit switch for resetting latched alarms and inhibiting the zone from the alarm output. The IN042 contains microprocessor-based electronics for advanced fault checking and operation. Selecting options is accomplished through DIP switch selections.

Each module has RS-485 serial communications providing an interface with a General Monitors Model CC02A MODBUS communications module. Fault and alarm status, as well as setup options, can be configured via the CC02A module.

The IN042 is part of the Zero Two Series Gas and Fire Detection System which is a flexible solution for various combustible, toxic gas and fire detection

applications. All of the Zero Two Series system cards are compatible and can be intermixed within the same rack if required. The Zero Two Series Rack includes options of 4, 8 or 16 channels and provides a bus of common terminals to each channel.

### Applications

- Refineries
- Drilling Platforms and Rigs
- Fuel Loading Facilities
- Compressor Stations
- LNG/LPG Processing and Storage Facilities
- Chemical Plants
- Gas Collection and Distribution Facilities
- Gas and Oil Production Platforms
- Aircraft Hangars



# MODEL IN042

## System Specifications

<b>Application:</b>	Smoke or heat detection, pull switches, and call points
<b>Detector Type:</b>	Ionized chamber or optical smoke, heat detectors. Normally open or normally closed pull switches and call points
<b>Barrier Type:</b>	Galvanic isolation or dual channel passive
<b>Front Panel Indicators:</b>	ALARM - Alarm (each zone) READY - Normal Operation FAULT - Malfunction (each zone) INHIBIT - Input Inhibited (each zone)
<b>Front Panel Switches:</b>	Reset - Reset alarms (each zone) Inhibit - Inhibit alarms (each zone)
<b>Test Features:</b>	Power on - Electronic integrity Card - Functionality & Alarm Ramp LED - Integrity of LED's & Display
<b>Modes:</b>	Call point, detector, inhibit outputs
<b>Devices:</b>	500 call points max. per zone Detector max. per zone varies
<b>Standards:</b>	Complies with UL 864 and NFPA 72A-72E
<b>Electrical Classification:</b>	General purpose, non-hazardous areas
<b>Warranty:</b>	Two Years
<b>Approvals:</b>	CSA, CE Marking, GOST

## Environmental Specifications

<b>Temperature Range:</b>	0°F to 150°F (-18°C to 66°C)
<b>Storage Temperature Range:</b>	-40°F to 150°F (-40°C to 66°C)
<b>Humidity:</b>	5 to 100% RH, non-condensing
<b>EMC Susceptibility:</b>	10V/m max.

## Electrical Specifications

<b>Input Power:</b>	24 VDC nominal (20 to 35 VDC) 1V p-p (supply noise & ripple)
<b>Input Current:</b>	0.5A max. @ +18 VDC 0.3A max. @ +35 VDC
<b>Input Limits:</b>	Call point, NO: series resistance 390 to 820 ohms (detector mode) Call point, NO: series zener diode 5.6V to 10V +5%, 1/2W (detector mode)
<b>Output Voltage:</b>	6 to 24 VDC (with 5.6K, EOL resistor) 2 VDC (reset voltage) 27 VDC (open circuit)
<b>Output Current:</b>	2mA DC (not including EOL resistor)
<b>Open Collector Rating:</b>	100mA @ 30 VDC maximum
<b>Cable Parameters:</b>	10 ohms max. field loop
<b>Mechanical Specifications</b>	
<b>Length:</b>	9.9 inches (251mm)
<b>Height:</b>	6.8 inches (173mm)
<b>Width:</b>	1.0 inches (25mm)
<b>Weight:</b>	11.2 ounces (318 grams)
<b>Standard Configuration:</b>	IN042-1-1-1-1-2-4-1

Specifications subject to change without notice.

Represented by:

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