



GENERAL MONITORS
Protection for life.

MODEL 2602A

Hydrogen Sulfide Control Module



Features

- RS-485 Serial Communications
- Digital Display
- LED Status Indication
- Relay, Open Collector Alarm & Fault Outputs
- User Setup, Setup Check Modes
- Password Option
- Conforms with ISA performance standards

Benefits

- Remote setup and interrogation via General Monitors' Model CC02A Communications Module
- Provides visual indication of alarm status and setup cues
- Provides visual indication of fault and status
- Multiple outputs for multi-function use
- Configuration easy to setup or change
- Tamper-proof operation
- Meets the most demanding performance expectations

Description

The General Monitors Model 2602A is a single-channel Hydrogen Sulfide Gas Control Module that has been designed for use with General Monitors' H₂S Gas Sensors. It is designed to monitor H₂S in parts per million (ppm) levels and provide status indication and alarm outputs.

Microprocessor-based electronics allow all options to be user selectable through front panel interface (mode/select switch and digital display). The digital display on the 2602A indicates gas concentration, fault codes, calibration cues and setup options. Other features of the 2602A are LED indications of status, as well as both open collector and relay outputs for fault, low alarm and high alarm.

Each module has RS-485 serial communications which provides 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 2602A is part of the General Monitors 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 completely 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
- Gas Collection and Distribution Facilities
- Gas and Oil Production Platforms
- Mud-logging Operations
- Sulfur Recovery / De-sulfurization Facilities
- Chemical Plants
- Wastewater Treatment Facilities



MODEL 2602A

System Specifications

| | |
|--------------------------------|---|
| Sensor Type: | Continuous diffusion, adsorption type Metal Oxide Semiconductor (MOS) |
| Sensor Life: | 3 to 5 years typical |
| Accuracy: | ± 2 ppm or 10% of the applied gas, whichever is greater |
| Response Time: | T50 ≤ 1 minute with full scale gas applied (screen) T50 ≤ 2 minutes with full scale gas applied (sintered) |
| Measuring Ranges: | 0-20 ppm, 0-50 ppm, or 0-100 (99) ppm |
| Front Panel Indicators: | A1 - Warning A2 - Alarm CAL - Calibration/Check READY - Normal Operation FAULT - Malfunction SETUP - User Options/Check DISPLAY - 2x7 Segment |
| Test Features: | Power on - Electronic Integrity Card - Functionality & Alarm Ramp LED - Integrity of LED's & Display |
| Modes: | Calibration, Calibration Check, Setup, Setup Check & Inhibit outputs |
| Password: | Prevents unauthorized alteration of setup parameters (can be disabled) |
| Classification: | General purpose, non-hazardous areas |
| Warranty: | Two years |
| Approvals: | CSA, CE Marking, Approved for Russia, SIL 2 Suitable. |

Environmental Specifications

| | |
|-------------------------------------|----------------------------------|
| Operating Temperature Range: | 0°F to +150°F (-18°C to +66°C) |
| Storage Temperature Range: | -40°F to +150°F (-40°C to +66°C) |
| Operating Humidity Range: | 5% to 100% RH, non-condensing |

Note: certification considerations may limit ambient temperature operational range.

EMC Susceptibility: Tested at 10V/m

Mechanical Specifications

| | |
|----------------|-------------------------|
| Length: | 9.9 inches (251mm) |
| Height: | 6.8 inches (173mm) |
| Width: | 1.0 inch (25mm) |
| Weight: | 11.2 ounces (318 grams) |

Electrical Specifications

| | |
|--------------------------------|---|
| Power: | 20-35 VDC @ 300mA max., including sensor |
| Relay Ratings: | 4A @ 250 VAC / 30V RMS/42.4 peak, 3A @ 30 VDC, resistive max. A1, A2 - DPDT Fault - SPDT |
| Analog Signal: | 0 - 20mA (600 ohms max. load @ nominal 24 VDC) Malfunction - 0mA Calib/Setup/Check - 1.5mA Zero Reading - 4mA±0.2mA 0-100% Scale - 4-20mA Over-range - 20-22mA |
| Open Collector Ratings: | 100mA @ 35 VDC max. A1, A2, Fault, LA1, LA2, CAL, FUA, UA |
| Cable Requirements: | 4 wire shielded cable. Max. allowable distance between sensor & 2602A with one-way resistance of 10 ohms (20 ohms loop) @ 24 VDC nominal: 14AWG - 3375 ft. (1029m) Max allowable distance for analog output (500 ohms loop resistance between AO+ and AO-): 14AWG - 9000 ft. (2740m) |
| Standard Configuration: | 2602A-4-1-00-1-3-3-0-1 Latch alarm, non-latch warn, de-energized, 0-100 ppm scale, 3 sec. ramp time |

Specifications subject to change without notice.

Represented by:

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