



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

- Chemical Plants
- Drilling Platforms and Rigs
- Gas and Oil Production Platforms
- Gas Collection and Distribution Facilities
- Mud-logging Operations
- Refineries
- Sulfur Recovery / De-sulfurization Facilities
- 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 < 14 seconds with full scale gas applied (screen)
T50 < 30 seconds 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:** 10% to 95% RH, non-condensing

Note: certification considerations may limit ambient temperature operational range.

EMC Protection: Complies with EN 50270

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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General Monitors Worldwide



www.generalmonitors.com

Lake Forest, CA

26776 Simpatica Circle
Lake Forest, California, 92630 Tel: +1-949-581-4464
Fax: +1-949-581-1151
email: info@generalmonitors.com

Houston, TX

9776 Whithorn Drive
Houston, Texas, 77095
Tel: +1-281-855-6000
Fax: +1-281-855-3290
email: gmhou@generalmonitors.com

Ireland

Ballybrit Business Park
Galway
Republic of Ireland
Tel: +353-91-751175
Fax: +353-91-751317
email: info@gmil.ie

Singapore

No. 2 Kallang Pudding Road
#09-16 Mactech Building
Singapore 349307
Tel: +65-6748-3488
Fax: +65-6748-1911
email: genmon@gmpacifica.com.sg

United Arab Emirates

P.O. Box 61209
Jebel Ali
Dubai
United Arab Emirates
Tel: +971-4-8143814
Fax: +971-4-8857587
email: gmme@generalmonitors.ae

United Kingdom

Heather Close
Lyme Green Business Park
Macclesfield, Cheshire
United Kingdom, SK11 0LR
Tel: +44-1625-619583
Fax: +44-1625-619098
email: info@generalmonitors.co.uk