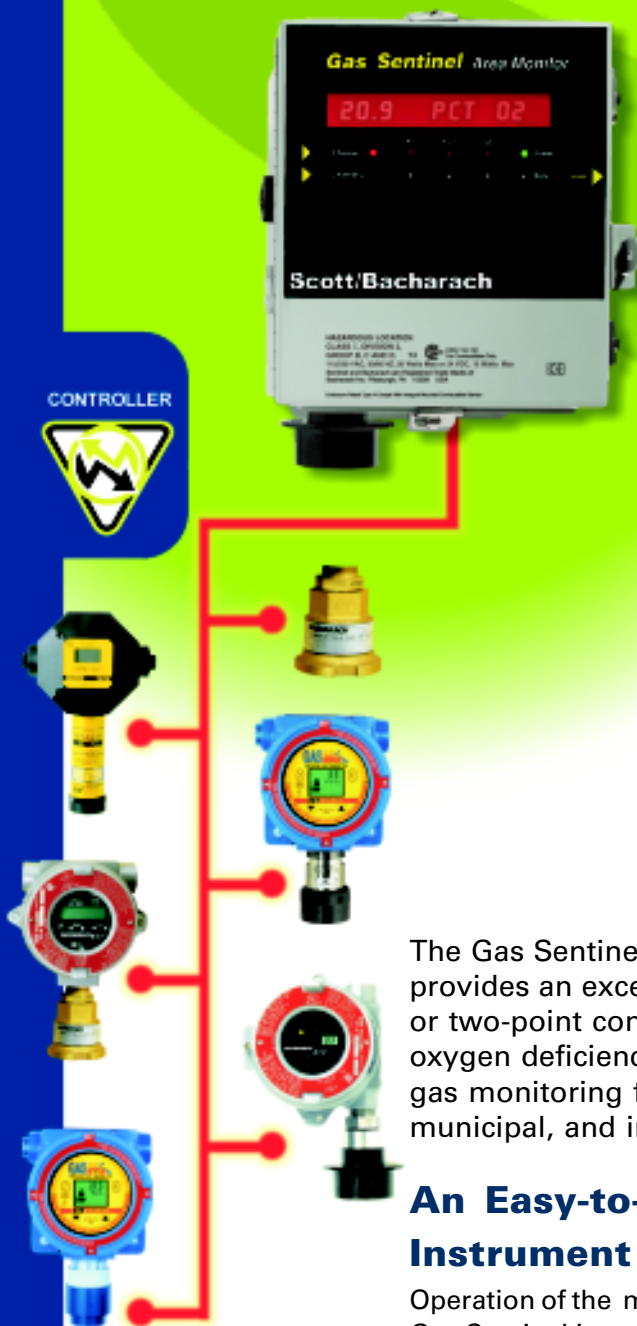


Sentinel® Area Monitor

One or Two Channel Controller



SCOTT/BACHARACH
Gas Detection Products



The Gas Sentinel Area Monitor provides an excellent solution to one or two-point continuous toxic, oxygen deficiency, and combustible gas monitoring for commercial, municipal, and industrial locations.

An Easy-to-Use Instrument

Operation of the microprocessor-based Gas Sentinel is made quick and simple via the intuitive, menu driven set-up commands. The bright, 12 character LED display is easy to read from virtually any angle and under any light conditions. It also provides a readout of the gas type being monitored and concentration. Visual indication of channel and alarm status are also provided via Gas Sentinel's front panel. An integral audible alarm can be configured to activate during Warn, Alarm, and Fail conditions.

Output and Monitoring Flexibility

The Gas Sentinel provides tremendous design flexibility in a practical, economical package. With its built-in 12-24 vDC power supply and easily accessible connection terminals, the Gas Sentinel permits connection of any Scott/Bacharach gas transmitter. Sensors/transmitters can be installed in remote locations and/or one sensor may be mounted directly to the controller.

The Gas Sentinel's NEMA-4 (optional NEMA-4X stainless steel) wall mount enclosure is suitable for mounting indoors or out and is rated for Class 1, Div 2 Group B, C, & D hazardous locations. Analog (4-20mA) and digital (RS-232/485) outputs, and three discrete SPDT relays per channel are standard features in every Gas Sentinel monitor.

Features

Flexible Sensor Configuration

Permits connection to any Scott/Bacharach transmitter. One sensor may be mounted directly to the controller.

Hazardous Location Installation

Control unit is suitable for Class I, Division 2, Groups B, C and D installation without purging. FM & CSA Approved

Optional Second Channel

Monitors up to two gases either locally or remotely with the ability to upgrade in the field.

Multiple Outputs

RS232 or RS485 serial outputs, along with 4-20mA output for each channel.

Discrete Alarm Relays

Three SPDT relays per channel

Easy-To-Maintain

Plug-in sensor, replaceable flame arrester, and remote sensor mounting

Local Horn

Audible on-board horn provides local alarming.

Specifications

- Housing** NEMA 4, Epoxy painted steel. Optional 316 SS NEMA-4X
- Power Input** ... 115/230 VAC \pm 10%, 47- 440 hz; or 24 VDC, 35 watts maximum.
- Outputs** Analog: 4-20mA into 500 ohms maximum for each channel.
Serial: RS232 or RS485;
Relays: 3 SPDT 5A relays per channel. (2)
Alarm levels (1) Fault
- Display** 0.5 inch 12 character alphanumeric LED display.
- Approvals** CSA; FM Class 1, Div 2, Group B,C,&D; CE Mark

Typical Specification

The sensor/transmitter shall be a microprocessor based, menu driven controller, capable of monitoring a combination of gases, either locally or remotely. It shall be field upgradeable for an optional second channel. The wall mount enclosure shall be rated NEMA 4 (optional NEMA-4X 316 SS) for installation within Class I, Division 2, Groups B, C, and D areas, without purging. Unit shall be FM and CSA approved. The unit shall be capable of operating from either from 115/230 VAC 50/60 hz or 24 VDC

The controller display shall be an alphanumeric type with large 12 character, 14 segment, LED display and capable of indicating the gas type, concentration, and unit of measure. The will be equipped with discrete LEDs for WARN, ALARM, FAIL, POWER, MUTE and external channel one or two indicators. Internal LEDs differentiate between configuration and calibration modes while using the menu system to configure the system to match customer's gas detection requirements.

Alarm outputs include 3 discrete relays for each channel: SPDT, rated 5A @ 115/230 VAC and 30 VDC. The relays can be configured to be normally energized or de-energized, latching or nonlatching. A local audible alarm shall emit a 90dB tone and an external reset button will silence the audible alarm when an event occurs.



Ordering Information

Gas Sentinel

- 51-7468 Single Channel Gas Sentinel
- 51-7491 Single Channel Gas Sentinel NEMA-4X 316 SS Enclosure
- 51-7469 Dual Channel Gas Sentinel (One local, one remote, or two remote sensors)
- 51-7492 Dual Channel Gas Sentinel NEMA-4X 316 SS Enclosure

Standard Accessories included

- 51-3055 Sensor Mounting Base
- 51-3087 Adapter (CG sensor or conduit)
- 51-3059 Sensor Mounting Base Gasket
- 151-9030 Instruction Manual
- 51-2973 Sensor Splashguard

Combustible Sensor Kits (-40° TO 185° F) Has 3/4 inch FNPT threads and 18 inch leads. May be located up to 500 feet from Gas Sentinel using appropriate wire size.
51-8317 Combustible 6 VDC Sensor Kit (diffusion) 0-100% LEL

Other Toxic and Combustible gas transmitters may be used. See separate Scott-Bacharach transmitter data sheets for specifications and ordering information.

