

GD-4000

Multi-Channel Gas Leak Detector



Features

- Alarms in presence of target gas
- One to Four sensor inputs
- Field programmable alarms and range settings
- Color Touch screen interface
- Up to four 4-20 mA DC outputs
- Up to ten output relays
- Optional battery backup

GD-4000

Description

The Model GD-4000 Gas Detector is a fully equipped multi-channel instrument intended for installations where stationary single sensor instruments do not provide enough coverage or flexibility in gases detected. The unit consists of a color touch screen alarm indicator and up to four remote sensors. The sensors can be mixed and matched to monitor a variety of gases including chlorine and sulfur-dioxide. When the concentration of a target gas exceeds a programmable setpoint, the operator is warned with an audible alarm and flashing display on the indicator unit.

Gas sensors are supplied pre-calibrated, but re-calibration is easily accomplished using a sample gas and the easy to use, menu driven touchscreen interface.

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Gas Sensors

The Gas Sensors are housed in a weatherproof NEMA 4X enclosure. The sensors react rapidly to the target gas in the atmosphere. The signal from the sensor is conditioned and displayed as gas concentration at the remotely mounted alarm indicator unit. Sensor status is monitored via an LED mounted on the sensor assembly.

Alarm Indicator Unit (AIU)

The electronics of the Alarm Indicating Unit are housed in a NEMA 4X enclosure. The unit has a back-lit color touchscreen display which provides all information in a clear and easily readable, alpha-numeric format. Upon sensing an alarm condition the display will flash and the loud, onboard audible alarm will sound. The unit provides an isolated 4-20 mA DC output signal for recording or transmission to remote instrumentation or a computer for each sensor.

A RS232 serial port is also available. Ten user programmable relays are provided. Danger level, critical level, sensor failure and, when furnished, backup battery condition are all fully configurable through the touch screen interface and stored in non-volatile memory.

Options:

- 12-hour external battery backup (Model BBU1000)
- Profibus communication
- Ethernet connectivity
- 24 V DC power supply

Indicator Specifications	
Enclosure	Nema 4X, 9.52" X 6.79" X 6.0"
Analog output	Four Isolated 4-20 mA dc into 650 ohms max
Digital interface	RS-232 serial, RS-485 Modbus RTU
Power requirement	115/230 V ac 50/60 Hz, switch selectable
Display	Backlit 3.5" color touchscreen
Alarm contacts	Programmable, (10) 250 V ac, 32 V dc @ 3 A
Sensor unit dimensions	4" X 4" X 2"

Gas Sensor Specifications (other gases available)			
Target Gas	Chlorine	Sulfur Dioxide	Ozone
Range, full scale	0.1-30 ppm	0.1-30 ppm	0-100 ppm
Sensor Resolution	0.1 ppm	0.1 ppm	20 ppb
Temperature	-20 to + 50 °C	-20 to + 50 °C	-20°C to +50 C

