

CGSM100 & CGSM300

Combined Gas Monitors for Vaults & RT's

Monitors Toxic & Combustible Gases

Accessible Real-time Gas Level Value (ppm)

Field Adjustable Alarm Thresholds (ppm)

Integrated Vent Fan Control

Audible & Visual LED Alarm Status



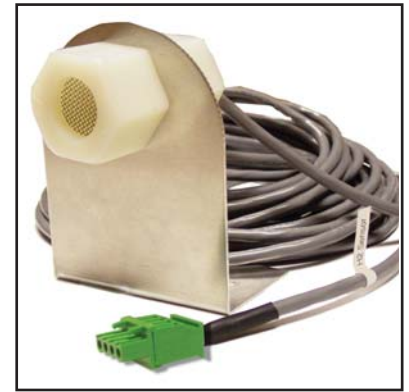
The **CGSM100** and **CGSM300** are designed to provide **safe, reliable, and long life** monitoring and alarming for toxic and combustible gases for your CO underground vaults, CEVs, CEMHs, CUEs, CECs, and WICs.

- **Monitors Carbon Monoxide (CO), Methane (HC), and Hydrogen (H₂) (optional) Gases.**
- **Provides separate relays for sensor failure, carbon monoxide, combustible, hydrogen (optional), and ventilation fan plus remote indicator output.**
- **Provides audible and visual alarms.**
- **Alarm thresholds adjustable 0 to 90% in the field via RS232 port.**
- **Powered by -48VDC ensures gases are being monitored during commercial AC power failure.**
- **CGSM100 comes in a stand-alone package and connects with the TELSEC® controllers.**
- **CGSM300 provides direct, easy replacement for Sierra Monitor 2400 Vault Gas Monitor.**
- **CGSM300 supplies power to optional smoke detector as well as pass-thru alarms via 24-pin Amphenol® Connector.**

CGSM100 & CGSM300 *(Combined Gas Monitors)*

Key Features

- LED indicators exhibit alarm and sensor status for each sensor.
- Fault status LED indication turns on when a sensor becomes defective.
- Automatic reset when gas levels fall below alarm thresholds.
- Reset button silences audible alarm.
- Test button simulates alarm condition and performs system test diagnostics.
- Communicate via RS232 port using standard, off-the-shelf terminal emulation software, such as, Procomm® or Hyperterminal®.
- Optional smoke detector peripheral with built-in sounder.



Remote Hydrogen Gas Sensor option with 25'(7.5M) cable

Carbon Monoxide Sensor (CO): 25 to 500 ppm operating range; factory set to 35 ppm.

Methane Sensor (HC): 1,000-10,000 ppm operating range; factory set at 5,000 ppm.

Hydrogen Sensor (H₂) (Option): 1,000-10,000 ppm operating range; factory set to 5,000 ppm.

Specifications

<i>Description</i>	Stand-alone Gas Monitor (interfaces with TELSEC®)	Direct Replacement for Sierra Monitor 2400
<i>Model#</i>	CGSM100	CGSM300
<i>Part#</i>	300150	300152
<i>PID/SSI#</i>	001536986	001536994
<i>Material ID#</i>	828369	828370
<i>Option</i>	For Remote Hydrogen Gas Monitor option, order part# 300652 (includes 25'(7.5M) cable)	
<i>Smoke Detector Peripheral</i>	Low profile, self-diagnostic, 4-wire photoelectric with built-in sounder, order part# 300136	
<i>Outputs</i>		
<i>Relay Contact Rating</i>		
K1	SPDT normally de-energized for CO sensor alarm. 10 amps, 1/8 H.P., 277 VAC (Resistive)	
K2	SPDT normally de-energized for HC sensor alarm. 10 amps, 1/8 H.P., 277 VAC (Resistive)	
K3	SPDT normally de-energized for optional H ₂ sensor alarm. 10 amps, 1/8 H.P., 277 VAC (Resistive)	
K4	DPDT normally de-energized for power/sensor fault. 5 amps, 1/8 H.P., 277 VAC (Resistive)	
K5	DPDT normally de-energized for Ventilation fan control common to all active sensors. One of the C contacts common leg on K5 is fused with a 4-amp socketed micro fuse. 5 amps, 1/8 H.P., 277 VAC (Resistive)	
<i>DC Power Output</i>	+12 VDC and ground (max power 60 mA) for remote Smoke Detector	
<i>RS232 Port</i>	On-site calibration, retrieval of calibration values, and adjustment of threshold alarms	
<i>Connections</i>	CGSM300: 24-pin Mil-Spec Amphenol® Connector conveys alarm status and control outputs	
<i>Power</i>	10 to 60 VDC	
<i>Audible Alarm</i>	80dB at 1M	
<i>Electrical Compliance</i>	Meets CSA standards (ENTECLA Certification)	
<i>Ambient Operating Temp</i>	32 to 110°F (0 to 43°C)	
<i>Dimensions-CGSM</i>	8.7"(221mm) H X 8.3"(211mm) W X 4.2"(107mm) D	
<i>Dimensions-H₂ Sensor</i>	4"(102mm) H X 3"(76mm) W X 1.75"(45mm) D	
<i>Weight-CGSM</i>	4 lbs (1.8kg)	
<i>Weight-H₂ Sensor</i>	1 lb (.45kg)	
<i>Warranty</i>	1 year	

Specifications are subject to change without notice

 **Quest Controls, Inc.**
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Pn#300150/300152, V9.0, 0705 Printed in U.S.A.