

GDS-68SXP Natural Gas Odorant Monitor for Mercaptans & Tetrahydrothiophene

- Designed for use in Class I, Div 1 Hazardous Locations
- Sensors for mercaptan, THT and common odorant mixtures
- Large LCD color display shows current reading, alarms & status
- *GDS Connect* App provides local wireless monitoring and control
- Manual or automatic calibration from stream or cal reference gas
- Gas and air flow sensor detects closed valves & blocked lines
- Automatic overrange detection protects sensor from damage
- Built-in flow meter provides visual confirmation of gas flow rate
- Outputs include 4-20mA output and RS-485 Serial MODBUS
- Units available: lbs per million feet, ppm or mg /cubic meter
- Latest generation GASMAX CX sensor with Digital Smart Sensors
- High quality diaphragm pump with 24VDC brushless motor
- Security levels reduce risk of tampering by unauthorized personnel
- Manufactured in USA

The GDS-68SXP Odorant Monitor uses industry-proven electrochemical sensor technology to measure the level of odorants in natural gas. Sensors are available for mercaptans, tetrahydrothiophene (THT) and blends such as Spotleak® by Arkema and Scentinel® from Chevron Phillips.

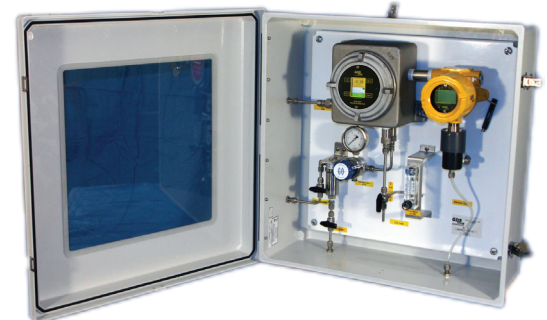
The GDS-68SXP Monitor offers an alternative to expensive analyzers or constant monitoring using pull tubes. While federal regulations still require human ‘sniffers’, the GDS-68SXP provides a cost-effective, automated and objective way to continuously measure and report odorant levels throughout a natural gas distribution network.

Reliable Measurements Day & Night

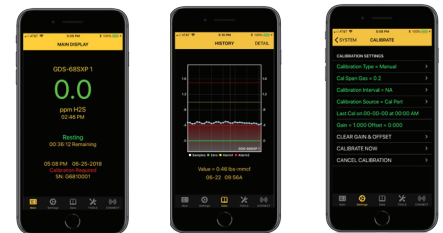
The GDS-68 SXP Odorant Monitor automates the entire measurement process. Before displaying the calculated value, each result is verified for proper gas flow, zero drift, overrange, sensor response and more.

Designed for Remote Environments

The GDS-68SXP is designed to be installed in remote, unattended locations. Power usage is less than 10 watts, making solar-powered operation practical and reliable. Automatic calibration allows the GDS-68SXP to periodically perform System Calibration cycles on daily, weekly or monthly intervals. Error conditions are reported as multi-level fault values, allowing remote diagnosis via the 4-20mA analog output or RS-485 MODBUS interface.



GDS-68SXP in NEMA 4X Enclosure



GDS CONNECT APP for GDS-68SXP



Advanced User Interface with Bluetooth® Wireless Technology

The GDS-68SXP features a large, easy-to-read color screen that displays the current reading, system status, time to next measurement and more. The companion *GDS Connect* iOS app for iPhone® connects to the GDS-68SXP via an internal Bluetooth wireless interface and allows the user to monitor or change settings and issue commands if GDS-68SXP user security settings allow.

Hazardous Areas

The GDS-68SXP is designed for use in Class I Division 1 hazardous areas and includes all rated components.

Applications:

- Gas Pipeline Monitoring
- Odorant Monitoring
- Custody Transfer Compliance



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GDS-68SXP SPECIFICATIONS	
Power Input	24VDC +/- 5% at < 10 watts. Optional heater requires 110 / 220VAC at 200 watts max
Primary Display	Backlit high resolution color LCD display shows latest reading, calibration and sample history and more
Sample Rate	From 48 samples per day to 1 sample per day
Repeatability	5% of range
Analog Output	Standard 3-wire 4-20mA current source. Max loop R is 750 ohms with nominal 24VDC power supply.
Digital Output	RS-485 serial 2-wire MODBUS slave interface. User programmable security levels allow for read / write or read-only modes
Wireless Output	Integrated Bluetooth wireless interface. User programmable security levels allow for full enable / disable and wireless read / write or read-only modes
System Calibration	User-initiated ("Manual") system calibration from calibration gas port or gas sample stream Programmable automatic repeating system calibration from calibration gas on user-selected intervals from one day to six months.
Gas Sensor	GASMAX CX with highly sensitive electrochemical sensors for Mercaptans, THT or gas odorant mixtures. Includes sensor monitoring and temperature compensation for accurate measurements indoors or outdoors
Gas Sensor Calibration	Prompted manual calibration for GASMAX CX gas sensor. "Calibration Required" notice automatically generated.
Purge Air Pump	Long life diaphragm pump with brushless 24VDC motor.
Sample Conditioning	Max inlet pressure 1500 psig. High pressure stainless steel inlet filter with stainless steel regulator. Filter element PVDF fluorocarbon for removal of liquid aerosols, 99.99% removal of 0.1 micron particles.
Sample Temp	+5°C (+41°F) to +50°C (+122°F)
Operating Temp	0°C (32°F) to +50°C (+122°F)
Construction	XP enclosure: Cast aluminum. GASMAX CX: Aluminum housing with epoxy paint standard; Exterior stainless steel tubing and fittings. Backplate epoxy painted steel
Dimensions (NEMA 4X)	24" x 24" x 8" Non-metallic (20 Kg / 45 pounds) 24" x 24" x 8" Stainless Steel Enclosure
Inlet / Outlet	1/4" compression, stainless steel
Approvals	GASMAX CX, enclosures and flame arrestors CSA Certified for Class I, Div 1, Grps B, C, D. Suitable for XP installations
System Security	Low setting - all user interaction allowed Medium setting - operation from menu, no remote control High setting - No access to menu without security code
Warranty	Electronics - 2 years from date of purchase

GDS-68SXP Order Guide	
GDS-68SXP-X-A-B-C / D-E-F	
"X"	SAMPLE CONDITIONING 3 = Filter + Regulator
"A"	INPUT TYPE 37 = Sensor Head w/ Flow Cell
"B"	SENSOR TYPE 30 = Tert-Butyl Mercaptan (TBM) (0-15 ppm, 0-3.00 lbs/mmcf, 0-50 mg/m3) 31 = Tetrahydrothiophene (THT) (0-15 ppm, 0-3.00 lbs/mmcf, 0-50 mg/m3) 40 = TBM / DMS Blends (0-3.00 lbs/mmcf, 0-50 mg/m3) 41 = TBM / THT Blends (0-3.00 lbs/mmcf, 0-50 mg/m3) 42 = TBM / MES Blends (0-3.00 lbs/mmcf, 0-50 mg/m3) 43 = TBM / Mercaptans Blends (0-3.00 lbs/mmcf, 0-50 mg/m3) 44 = General Mercaptans (0-3.00 lbs/mmcf, 0-50 mg/m3)
"C"	STANDARD RANGES (-R0003) 0-3.00 lbs/mmcf (-R0015) 0-15 ppm (-R0050) 0-50 mg/m3
"D"	OUTPUT 1 = 4-20mA + RS-485 MODBUS 2 = 2x alarm relays and fault relay*
"E"	ENCLOSURE 2 = 24" x 24" non-metallic enclosure 3 = 24" x 24" stainless steel enclosure
"F"	HEATER / INSULATION 0 = None 1 = 110VAC, 200W, 50F 2 = 220VAC, 200W, 50F 3 = 110VAC, 200W, 50F + insulation 4 = 220VAC, 200W, 50F + insulation 5 = 110VAC, 200W, 100F 6 = 220VAC, 200W, 100F 7 = 110VAC, 200W, 100F + insulation 8 = 220VAC, 200W, 100F + insulation (Note: Fixed thermostat setting)



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