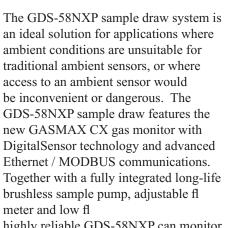# GDS-58NXP Sample Draw System

Integrated Dual Channel Gas Monitor & Sample Pump with Advanced Networking and High Visibility Color LCD Display

✳ Single or dual channel - monitor both H2S and LEL simultaneously

✳ Supports electrochemical, PID, catalytic bead and infrared sensors

✳ High quality diaphragm pump with 24VDC brushless motor

✳ Designed for use in Class I, Div 1 Hazardous Locations

✳ High visibility color display flashes yellow or red on alarm

✳ Setup in hazardous area requires only simple magnetic wand

✳ Integrated flow warning switch for ultra-reliable remote operation

✳ Built-in flow meter provides visual confirmation of sample flow rate

✳ Standard RJ-45 Ethernet interface with built-in web server

✳ Prompted calibration procedure and cal port for easy maintenance

✳ Sample lines up to 500 ft in length with latency less than 4 minutes

✳ Optional 4x alarm relays and dual serial MODBUS interface

✳ GASMAX CX auto-confi with DigitalSensor technology

✳ Optional matching 110/220VAC power supply available

✳ Manufactured in USA

The GDS-58NXP sample draw system is an ideal solution for applications where ambient conditions are unsuitable for traditional ambient sensors, or where access to an ambient sensor would be inconvenient or dangerous. The GDS-58NXP sample draw features the new GASMAX CX gas monitor with DigitalSensor technology and advanced Ethernet / MODBUS communications. Together with a fully integrated long-life brushless sample pump, adjustable fl meter and low fl highly reliable GDS-58NXP can monitor locations up to 500 feet away.

GASMAX CX Gas Monitor
The new GASMAX CX dual channel gas monitor supports new GDS Corp Digital Sensors for toxic and combustible gases as well as volatile organics and inert gases such as CO_2. The high contrast full color graphic display shows system status, gas values, programmable tag name and engineering units under full daylight conditions. Unlike previous generation detectors with point LEDs, the GASMAX CX signals alarms by flashing the entire screen, making alarm indications clearly visible to operators and technicians. A menu-driven operator interface eliminates all analog potentiometers and allows setup and calibration without hazardous area declassification. An integrated Run / Calibrate valve and user prompted calibration procedure make routine maintenance and field 'bump tests' quick and easy.

Reliability in Hostile Environments
Utilizing a long-life brushless DC pump, the GDS-58NXP Sample Draw is suitable for installation in hazardous areas rated Class I, Div 1, Groups B, C & D.

The GDS-58NXP is ideal for sampling toxic or combustible gases in:
* *Sumps and enclosed areas*
* *Cabinets or storeroom with limited ventilation or airflow*
* *Air conditioning intake or exhaust plenums and ducts*
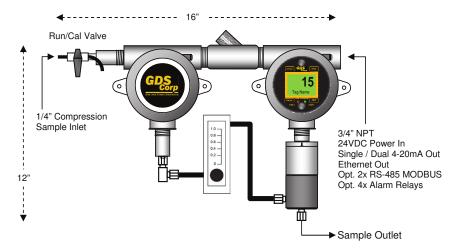* *Boiler burners and ducting*

AUTHORIZED DISTRIBUTOR: GasDetectorsUSA.com
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832-615-3588

GDS Corp
Gas and Flame Detection

Toxic & Combustible Gas Detection • Controllers • Process Monitors • Calibration Supplies

GDS-58NXP SPECIFICATIONS

Power Input	24VDC +/- 5% at < 12 watts. Optional 110/220VAC power supply available in separate enclosure.
Display	High visibility color LCD displays engineering units, alarm levels and trend data
Sensor Channel One	Supports bridge-type sensors, electrochemical sensors and 4-20mA input devices such as the GDS-IR Infrared Sensor
Sensor Channel Two	Supports electrochemical sensors and 4-20mA input devices such as the GDS-IR Infrared Sensor
Standard Output	Single or dual 3-wire 4-20mA current source. Max loop R is 750 ohms with nominal 24VDC power supply. 10/100 Ethernet with MODBUS/TCP and web server
Optional Output	Four Form C Relays 5A @ 30VDC / 240VAC Dual RS-485 2-wire MODBUS® interface
Sample Pump	1.6L diaphragm pump with brushless 24VDC motor NOTE: Pump may not start at temperatures below 0°C Integral flow switch generates FAULT output on 4-20mA if flow blocked or pump fails
Temp	0°C to +55°C operating
Housing	Aluminum housing with epoxy paint #316 stainless optional
Dimensions	16" x 12" x 5" for sensor types 10 - 70, 10 pounds 16" x 15" x 5" for sensor types 110+, 14 pounds Plate, 17" x 15", for single detector Plate, 21" x 17", for dual detector or 110VAC supply
Inlet / Outlet	1/4" compression, stainless steel
Approvals	GASMAX CX CSA Certified for Class I, Div 1, Grps B, C, D. Enclosure rated Class II, Div 2 Grps E, F, G. Suitable for XP installations[2]
Warranty	2 years from date of purchase on electronics

GDS-58NXP Order Guide

GDS-58NXP X / A-B-C / D-E-F / G-H-J

"X"	0 = None 1 = Non-metallic particulate filter 2 = Stainless steel coalescing fi 3 = Pyrex clear coalescing filter
"A"	CH 1 SENSOR HEAD 1 = Stainless Steel Sensor Head 28 = Local mount for GDS-IR
"B"	CH 1 SENSOR TYPE (see chart) 10-33 = Non-reactive Toxic sensor[1] 61-64 = Photoionization detector 70-71 = Catalytic bead % LEL 110-133 = GDS-IR % LEL, % v/v
"C"	CH 1 DETECTION RANGE 1 = 0 - 1 5 = 0 - 50 2 = 0 - 5 6 = 0 - 100 3 = 0 - 10 7 = 0 - 500 4 = 0 - 25 8 = 0 - 1000 Custom RXXXX (0000-9999)
"D"	CH 2 SENSOR HEAD 0 = None 1 = Stainless Steel Sensor Head 28 = Local mount for GDS-IR
"E"	CH 2 SENSOR TYPE (see chart) 0 = None 10-33 = Non-reactive Toxic sensor[1] 110-133 = GDS-IR % LEL, % v/v
"F"	CH 2 DETECTION RANGE 0 = None (See "C")
"G"	OUTPUT 1 = Enet, 4x Alarm Relays & Dual MODBUS 2 = Adds Analog Jbox (RWJB) to "1" 3 = Adds MODBUS Jbox (MBJB) to "1"
"H"	POWER SUPPLY 0 = +24VDC +/- 5% 1 = 110/220VAC (In separate enclosure)
"J"	MOUNTING PLATE/ENCLOSURE[3] 0 = None 1 = 17" x 15" painted steel plate 2 = 17" x 15" 304 stainless plate 3 = 21" x 17" painted steel plate 4 = 21" x 17" 316 stainless plate 5 = 24" x 24" non-metallic enclosure 6 = 24" x 24" stainless steel enclosure

GDS-58NXP SAMPLE DRAW SYSTEM (Single Channel)

NOTES

Note 1: Reactive gas sensors are not supported.