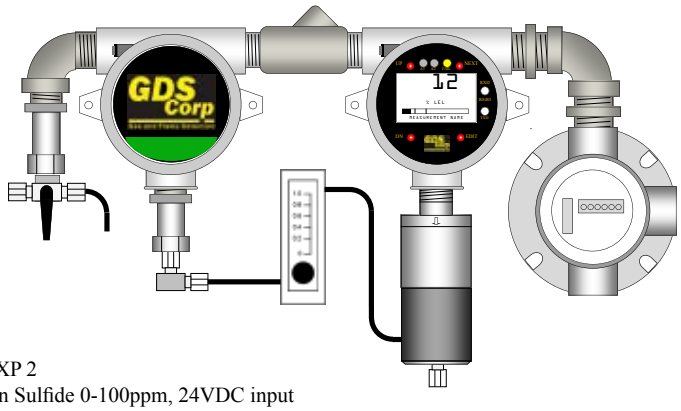
GDS-58XP2 Sample Draw Monitor

Single Channel Sample Draw System for Gas Measurement in Hazardous or Extreme Locations

- Designed for installation in Class I, Div 1 Hazardous Locations
- Sensors for CO_2, combustible and non-reactive toxic gases
- High visibility flow indicator shows RED or GREEN status
- Wiring junction box simplifies field wiring and maintenance
- Low flow indication on screen and optional interruption of 4-20mA
- Built-in flow meter provides visual confirmation of sample flow rate
- Prompted calibration procedure and cal port for easy maintenance
- Accepts sample lines up to 500 ft in length
- Optional programmable 5A relays for low and high alarm indication
- High quality diaphragm pump with 24VDC brushless motor
- Optional matching 110/220VAC power supply available
- Setup in hazardous area requires only simple magnetic wand
- Manufactured in USA



GDS-58XP 2
Hydrogen Sulfide 0-100ppm, 24VDC input

Remote Sampling Made Easy
The GDS-58XP2 sample draw system is designed to accurately measure gas levels in areas with limited accessibility or in situations where harsh environmental conditions make the installation of a standard diffusion sensor difficult or impossible. The GDS-58XP2 combines a GASMAX II gas monitor, adjustable flow meter, low flow switch and long life diaphragm pump in a single convenient package.

GASMAX II Gas Monitor
The GASMAX II state-of-the-art gas monitor features a high contrast backlit display that shows real-time gas values and 30 minute trend date. Flashing LEDs draw immediate attention to alarm conditions, and a diffused red/green LED flow indicator shows flow status at a glance. An internal real-time clock and event log time-stamps calibration and alarm events for later review,

Optional 3x alarm relays and serial MODBUS port are available in addition to standard 4-20mA output. Jumpers are provided that allow the low-flow warning to interrupt the 4-20mA loop for remote indication of flow fault.

The GDS-58XP2 supports any GDS Corp e-chem, 4-20mA or bridge-type sensor for non-reactive gases (See GDS-58GP for reactive gases). An easy-to-use menu-driven operator interface eliminates all analog potentiometers and allows setup and calibration to be completed without hazardous area declassification.

An integrated Run / Calibrate valve and user prompted calibration procedure make routine maintenance and field ‘bump tests’ quick and easy.

Rugged and Reliable
The GDS-58XP2 Sample Draw system is designed for installation and use in industrial applications and hazardous areas rated Class I, Div 1. Temperature-compensated sensors and industrial-quality components allow reliable operation and rapid response down to 0°C.

The GDS-58XP2 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***

GDS Corp
Gas and Flame Detection

AUTHORIZED DISTRIBUTOR: GasDetectorsUSA.com
Houston, Texas USA
sales@GasDetectorsUSA.com
832-615-3588

GDS-58XP2 SPECIFICATIONS

Power Input	24VDC +/- 5% at < 10 watts.
Display	Backlit 64 x 128 pixel LCD with 30-minute trend
Electrochemical Sensor Option	Accepts microamp-level signals from GDS Corp toxic & oxygen deficiency sensors
Bridge Type Sensor Option	Provides adjustable excitation voltage for photoionization detectors and catalytic bead sensors
4-20mA Type Sensor Option	Supports GDS-IR infrared sensors that output 4-20mA. Includes local magnetic / pushbutton zero-set function.
Standard Output	Standard 3-wire 4-20mA current source. Max loop R is 750 ohms with nominal 24VDC power supply Bright LED red / green flow status indicator panel. Shows green if flow OK, red if flow blocked. Wiring Junction Box with Power On indicator, easy-connect wiring terminals, flow fault jumper selection and two 3/4" NPT female connections
Optional Output	Three Form C Relays 5A @ 30VDC / 240VAC plus RS-485 2-wire MODBUS® slave interface.
Sample Pump	1.6L diaphragm pump with brushless 24VDC motor NOTE: Pump may not start at temperatures below 0°C
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 Stainless steel plate, 21" x 21", 22 pounds 24" x 24" nonmetallic enclosure, 40 pounds
Inlet / Outlet	1/4" compression, stainless steel
Approvals	GASMAX II 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

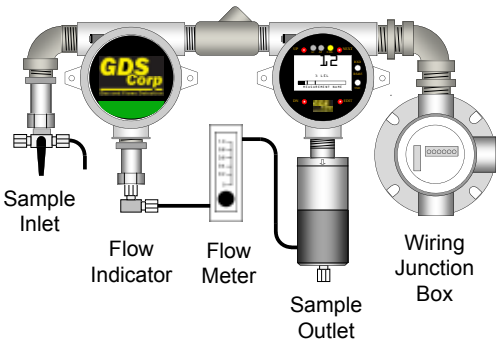
SENSOR TYPES[1]

10	Oxygen (0-25%)	0°C to +55°C	**29**	Nitrogen Dioxide	0°C to +50°C
11	Carbon Monoxide	0°C to +50°C	**30**	Mercaptan TBM	0°C to +40°C
14	Hydrogen	0°C to +50°C	**31**	Tetrahydrothiophene (THT)	0°C to +40°C
15	Hydrogen Sulfide	0°C to +50°C	**32**	Diborane	0°C to +40°C
19	Sulfur Dioxide	0°C to +50°C	**33**	Hydrogen Sulfide (low RH)	0°C to +50°C
22	Ethylene Oxide	0°C to +50°C	**5x**	SmartIR Infrared CH4 / CO2	0°C to +55°C
23	Arsine	0°C to +40°C	**6x**	PID for complex organics	0°C to +55°C
24	Silane	0°C to +40°C	**7x**	Catalytic bead for combustibles	0°C to +55°C
27	Hydrazine	0°C to +40°C	**1xx**	GDS-IR family, 0-100% LEL	0°C to +55°C
28	Nitric Oxide	0°C to +50°C			

GDS-58XP2 Order Guide

GDS-58XP2 X / A-B-C / D-E [SS] [TAG] [HTR]

"X"	0 = None 1 = Non-metallic particulate filter 2 = Stainless steel coalescing filter 3 = Pyrex clear coalescing filter
"A"	SENSOR HEAD 37 = Sensor Head w/ Flow Cell 45 = GDS-IR w/ Flow Cell
"B"	SENSOR TYPE [2] See GDS Corp Product Configurator for allowable sensor types
"C"	DETECTION RANGE[2] 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 (0-9999)
"D"	OUTPUT[3] 1 = 4-20mA with Flow Fault option 2 = Adds 3x SPDT 5A relays and MODBUS RS-485 serial port
"E"	MOUNTING PLATE/ENCLOSURE 0 = None 1 = 21" x 21" stainless steel plate 2 = 24" x 24" non-metallic enclosure[4] 3 = 24" x 24" stainless steel enclosure
	[SS] = Stainless steel instrument enclosures [TAG] = Stainless steel tag [HTR] = Enclosure heater (Requires "E" = 2) [4]



NOTES

Note 1: Reactive gases not supported on GDS-58XP2; use GDS-58NRG for chlorine and similar gases

Note 2: Not all sensors are available in all ranges. Contact GDS Corp for specific applications

Note 3: Analog 4-20mA is always available. Jumper selection allows flow fault to interrupt current loop for remote fault indication.

Note 4: AC-powered enclosure heater is available as an option with 24" x 24" non-metallic enclosure and is recommended in outdoor applications in cold climates. Contact factory for more information.

GDS Corp
Gas and Flame Detection