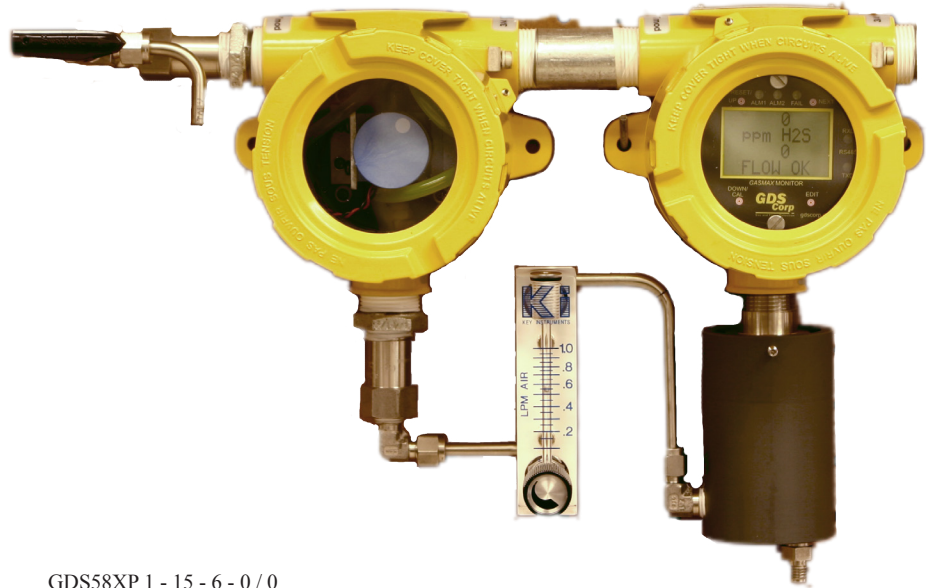


# GDS-58XP Sample Draw System

## Self-Contained Sample Draw System for Use in Hazardous Locations

- \* Designed for installation in Class I, Div 1 Hazardous Locations
- \* Supports all GDS Corp bridge type and electrochemical sensors
- \* High quality diaphragm pump with 24VDC brushless motor
- \* 5A fault alarm for low flow or sensor fault indication
- \* 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 100 ft in length
- \* Dual programmable 5A relays for low and high alarm indication
- \* GASMAX auto-recognition of Smart Sensors
- \* Optional matching 110/220VAC power supply available
- \* Setup in hazardous area requires only simple magnetic wand



GDS58XP 1 - 15 - 6 - 0 / 0  
Hydrogen Sulfide 0-100ppm, 24VDC input

### GDS-58XP Sample Draw

The GDS-58XP sample draw system is designed for situations where the installation of a diffusion-style sensor is inappropriate, either because access is difficult or because harsh environmental conditions, such as high temperatures, would reduce the life of the sensor. The GDS-58XP combines a GASMAX II gas monitor, adjustable flow meter, low flow switch with 5A relay and long life diaphragm pump in a single convenient package. An optional 110/220VAC power supply is also available.

### GASMAX II Gas Monitor

The GASMAX state-of-the-art monitor supports any GDS Corp e-chem or bridge-type sensor. The high contrast backlit

graphic display shows system status, gas values, programmable tag name and “FLOW OK” indication, while flashing LEDs draw immediate attention to alarm conditions. An internal real-time clock and event log time-stamps calibration and alarm events for later review, while the 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-58XP Sample Draw system is designed for installation in hazardous areas rated Class I, Div 1. For low temperature or high humidity applications, an “Arctic Monitor” option adds thermostatically controlled heaters to the sensor head to enable operation in temperatures as low as -55°C.

**GDS**  
**Corp**

Gas and Flame Detection

2513 Hwy 646

Santa Fe, Texas 77510

409-927-2980 • 409-927-4180 (fax)

www.gdscorp.com • info@gdscorp.com

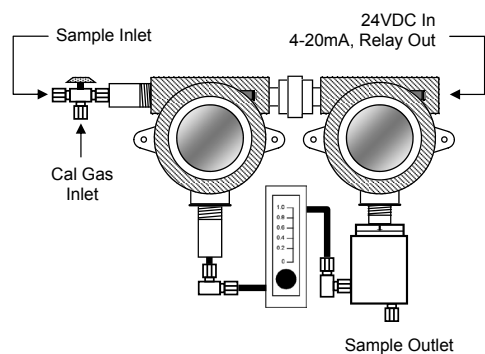
Toxic & Combustible Gas Detection • Controllers • Process Monitors • Calibration Supplies

GDS-58XP SPECIFICATIONS	
<b>Power Input</b>	24VDC +/- 5% at < 10 watts. Additional 5W required for Extended Temp sensor heater option. Optional 110/220VAC power supply in separate enclosure.
<b>Display</b>	Backlit 64 x 128 pixel LCD with 30-minute trend
<b>Electrochemical Sensor Option</b>	Accepts microamp-level signals from GDS Corp toxic & oxygen deficiency sensors
<b>Bridge Type Sensor Option</b>	Provides adjustable excitation voltage for SmartIR, PID, catalytic bead sensors and GDS-IR infrared
<b>Standard Output</b>	Standard 3-wire 4-20mA current source. Max loop R is 750 ohms with nominal 24VDC power supply Three Form C Relays 5A @ 30VDC / 240VAC plus RS-485 2-wire MODBUS® slave interface. Fault relay configured for sensor FAULT or LOW FLOW
<b>Sample Pump</b>	1.6L diaphragm pump with brushless 24VDC motor
<b>Temp</b>	-25°C to +65°C (see sensor limitations)
<b>Housing</b>	Aluminum housing with epoxy paint standard; #316 stainless steel opt
<b>Dimensions</b>	14" x 12" x 5" (w-h-d) for sensor types 10 - 70, 10 pounds 14" x 15" x 5" (w-h-d) for sensor types 99+, 14 pounds
<b>Dimensions with AC supply</b>	21" x 12" x 5" for sensor types 10 - 70, 14 pounds 21" x 15" x 5" for sensor types 99+, 18 pounds
<b>Inlet / Outlet</b>	1/4" compression, stainless steel
<b>Approvals</b>	GASMAX II CSA Certified for Class I, Div 1, Grps B, C, D. Suitable for XP installations
<b>Warranty</b>	2 years from date of purchase on electronics

SENSOR TYPES					
10	Oxygen (0-25%)	-40 to +55C	27	Hydrazine (0-1) <sup>3</sup>	-40 to +40C
11	Carbon Monoxide (0-300)	-40 to +50C	28	Nitric Oxide (0-50)	-40 to +50C
12	Chlorine (0-5) <sup>2,3</sup>	-40 to +50C	29	Nitrogen Dioxide (0-100)	-40 to +50C
13	Chlorine Dioxide (0-1) <sup>2,3</sup>	-40 to +40C	30	Mercaptan TBM (0-15) <sup>3</sup>	-40 to +40C
14	Hydrogen (0-2000) <sup>3</sup>	-40 to +50C	31	Tetrahydrothiophene (0-100) <sup>3</sup>	-40 to +40C
15	Hydrogen Sulfide (0-100)	-40 to +50C	50	SmartIR 0-100% LEL (Methane)	-20 to +50C
16	Hydrogen Cyanide (0-50) <sup>3</sup>	-40 to +50C	51	SmartIR 0-100% LEL (Propane)	-20 to +50C
17	Hydrogen Chloride (0-30) <sup>2,3</sup>	-40 to +50C	53	SmartIR 0-100% v/v (Methane)	-20 to +50C
18	Hydrogen Fluoride (0-10) <sup>2,3</sup>	-20 to +50C	53	SmartIR Carbon Dioxide	-20 to +50C
19	Sulfur Dioxide (0-25)	-40 to +50C	61	PID Low (0-50 ppm) 10.6eV	-40 to +60C
20	Ammonia (0-100) <sup>2,3</sup>	-40 to +40C	62	PID High (0-300 ppm) 10.6eV	-40 to +60C
21	Ozone (0-1) <sup>2,3</sup>	-40 to +40C	63	PID Low (0-50 ppm) 9.6eV	-40 to +65C
22	Ethylene Oxide (0-20) <sup>3</sup>	-40 to +50C	64	PID High (0-300 ppm) 9.6eV	-40 to +60C
23	Arsine (0-1) <sup>3</sup>	-40 to +40C	70	Catalytic Bead 0-100% LEL	-40 to +65C
24	Silane (0-50) <sup>3</sup>	-40 to +40C			
25	Fluorine (0-1) <sup>3</sup>	-40 to +40C	99	GDS-IR (specify gas)	-40 to +65C
26	Phosgene (0-1) <sup>3</sup>	-40 to +40C		See GDS-IR data sheet for more target gas selections	

GDS-58XP Order Guide	
GDS-58XP A-B-C-D / E [SS]	
<b>"A"</b>	SENSOR HEAD <sup>1,2</sup> 1 = Stainless Steel Sensor Head 3 = Aluminum Sensor Head (for non-XP areas only) 9 = Local GDS-IR (Type 99+)
<b>"B"</b>	SENSOR TYPE (see chart) Specify type 10 - 199
<b>"C"</b>	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 (0-9999)
<b>"D"</b>	EXTENDED TEMP <sup>3</sup> 0 = No sensor heater 1 = Internal heaters for low temp or high humidity applications
<b>"E"</b>	POWER SUPPLY 0 = 24VDC input 1 = Optional 110/220VAC power supply (separate enclosure)

NOTES
Note 1: GASMAX II with aluminum sensor head NOT certified for XP installations
Note 2: Certain highly reactive gases require aluminum sensor head
Note 3: Operation below -10°C for sensor types 10 to 31 may require Extended Temp option



GDS-58XP SAMPLE DRAW SYSTEM



2513 Hwy 646  
 Santa Fe, Texas 77510  
 409-927-2980 • 409-927-4180 (fax)  
 www.gdscorp.com • info@gdscorp.com