

# Pipeline Stream Analyzer

## for CO<sub>2</sub> & H<sub>2</sub>S, Combustible & Toxic Gas

- ◆ Suitable for Class 1, Div 1 or Div 2 hazardous areas
- ◆ Monitor up to four separate gases simultaneously
- ◆ Solid state, electrochemical or infrared sensors
- ◆ Input up to 4500 psig with filter; optional input filtering may be needed
- ◆ Options include 5A alarm contacts; isolated 4-20mA, MODBUS and more
- ◆ Wireless data communications options available
- ◆ Security settings allow locking of critical parameters
- ◆ Easy interface to all GDS Corp. *Protector* series controllers

The GDS Corp. Pipeline Stream Analyzer (PSA) is designed to continuously monitor an incoming gas sample for hydrogen sulfide, carbon dioxide, combustibles and / or other toxic gases. Output options include 4-20mA current loop, multiple alarm-level-based relay contact closures, RS-485 MODBUS® interface or wireless modem.



Designed for use in hazardous areas, the PSA integrates state-of-the-art GDS Corp sensors and transmitters with custom-designed gas flow control and conditioning subsystems.

Incoming gas is filtered and regulated. If necessary, a flow of ambient air / oxygen is mixed with the incoming sample to ensure long sensor life and accurate readings. Air flow can be provided externally or provided by the PSA (see photo).

If local display is required, a GASMAX II powered gas monitor (shown with H<sub>2</sub>S and CO<sub>2</sub> sensors) or GASMAX / EC two-wire gas monitor can provide single or dual-channel inputs for electrochemical or bridge sensors. If no local display is required, a GDS-49 sensor transmitter can be used for cost-sensitive applications.

Fully customized versions of the PSA are available. Please contact GDS Corp for more information.



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# GDS CORP

<b>Ranges Available</b>	0 - 25 ppm H <sub>2</sub> S 0 - 200 ppm H <sub>2</sub> S 0 - 1000 ppm H <sub>2</sub> S 0 - 5% by volume CO <sub>2</sub> Other ranges and gases available
<b>Approvals</b>	Class I, Div 1 Groups C, D. Class I, Div 2 rated enclosure available
<b>Operating Voltage</b>	24VDC standard; 120/240VAC option Solar power option (contact factory)
<b>Gas Inlet</b>	1/4" stainless steel compression fitting 1500 psig MAX; Optional 4500 psig
<b>Gas Stream Properties (Typical)</b>	Natural Gas; 104°F Maximum Dry and particle-free; additional filtering may be required to ensure long instrument life. Sample flow rate: 1.5 LPM
<b>Sensors</b>	H <sub>2</sub> S - Field-replaceable CO <sub>2</sub> - NDIR Infrared
<b>Display</b>	Large backlit 64 x 128 pixel LCD with 30 minute trend, bar-graph and engineering units. Adjustable contrast
<b>Outputs</b>	Standard dual 3-wire 4-20mA current source. Max loop R is 750 ohms with nominal 24VDC power supply Optional dual 1500CMV isolated 4-20mA current source. Optional three Form C (SPDT) Relays 5A @ 30VDC / 240VAC for Alarm 1, Alarm 2 and Fault. Includes RS-485 2-wire MODBUS® interface Optional Wireless Radio Modem
<b>Accuracy</b>	± 5% of full scale
<b>Response</b>	T <sub>90</sub> < 20 seconds @ 20°C ambient (H <sub>2</sub> S)
<b>Operating Temperature</b>	-20°C to 50°C 10% - 99% RH non-condensing
<b>Dimensions (as shown)</b>	21" x 21" x 7" (No enclosure) Available NEMA 4 or NEMA 4X Enclosure 24" x 24" x 8"
<b>Shipping Weight</b>	75 pounds



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## PSA Applications

- ✓ Natural Gas Production
- ✓ Natural Gas Pipelines
- ✓ Process Monitoring
- ✓ Gas Treatment Plants
- ✓ Tail Gas Lines
- ✓ H<sub>2</sub>S Removal Efficiency
- ✓ Mercaptan Content Monitoring
- ✓ Custodial Transfer Checking

The GDS Corp **Product Selection Guide** contains a single page questionnaire that can be helpful in developing specifications for a custom Pipeline Stream Analyzer. The Product Selection Guide is available on our website at [www.gdscorp.com](http://www.gdscorp.com) (click **DOWNLOADS**) or by contacting GDS Corp at (409) 927-2980.

Represented by: