

VS-5000 CO2 Gas Purity MONITOR

Infrared Inline Gas Purity sensor measuring at Truck, Prefilter and Post filter

BevSense

Direct purity measurements 24x7

Benzene, Acetaldehyde, Hydrocarbons as Methane, Sulfur Dioxide

The VS-5000 Gas Purity Sensor measures gas contaminants real-time 24x7. Concentrations are measured directly, not inferred or calculated. VS5000 is easy to install, easy to integrate and has a low cost of ownership.



BevSense is the leader in innovative, inline instruments for the food, beverage and pharmaceutical industries. The VS-5000 Gas Purity Monitor measures four concentrations and temperature simultaneously in one rack mountable box.

Real-time, inline concentration readings available for:

- Volatile Hydrocarbons as Benzene
- Acetaldehyde
- Hydrocarbons as Methanol
- Sulfur Dioxide

Precision Infrared Measurements of Gas Contaminants— The VS-5000 provides concentration and temperature readings for CO₂ gas in a truck, pre-filter or post-filter. The VS-5000 is designed to be a plug and play replacement for the Pulsar series Gas Purity sensor.

Maintenance and Cost Savings — The VS-5000 is a state of the art, solid state device which contain no moving parts and requires much less maintenance than the current gas purity sensors

Improved Plant and Asset Utilization — The proven reliability, accuracy and repeatability of the VS-3000E Sensors provide plant personnel with real-time process control data for monitoring gas impurities 24x7.

Networked Devices Providing Real-Time Data — VS-3000E sensors can be implemented as standalone units or as part of a process control network under PLC control.

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VS-5000 Product Specifications

System includes Gas Purity Monitor, Windows™-based software

Part #s	VS-5000 CO2 Purity Monitor Measuring Benzene, Acetaldehyde, Hydrocarbons as Methane, Sulfur Dioxide			
Parameter Measured	Benzene	Acetaldehyde	Methane	Sulfur Dioxide
Measuring Range	0 – 100 ppb	0 - 10 ppm	0 - 100 ppm	0 - 10 ppm
Accuracy	20 ppb	.2 ppm	20 ppm Methane 50 ppm hydrocarbon	.1 ppm
Resolution	1.0 ppb	.01 ppm	1.0 ppm	.01 ppm
Repeatability				
Measuring Method	Spectrometer with long pass gas sampling			
Measuring Interval	100 ms			
Data Output Interval	10 minutes for gas purity test			
Operating Temperature	15°C to 40°C – Standard Model			
Temperature Display Range	-5°C to +85°C (+23°F to 185°F)			
Maximum Temperature	50°C			
Maximum Line Pressure	30 psi			
Process Connection	1/4" Swagelok gas fittings			
Dimensions (Sensor)	82.6mm (3.25 in) W x 82.6mm (3.25 in) H x 82.6mm (3.25 in) D			
Enclosure	Gas Purity sensor single rack mount			
Shock Resistance	Analytical Instrument Handle with care			
Operator Interface – Lab Interface Windows 7 or higher PC, Truck interface Windows 10 IP67 tablet				
Display	Concentration(s)			
Cable	Standard Cat-5 Ethernet			
I/O				
Fieldbus Interfaces	EtherNet/IP			
Power	24VDC @ 200 Watts			
Dimensions (WxHxD VS-300 SMS)				
Enclosure	Rack mounted enclosure			
Ambient Temperature	15°C to +40°C			
Shipping Weight (Total System)				