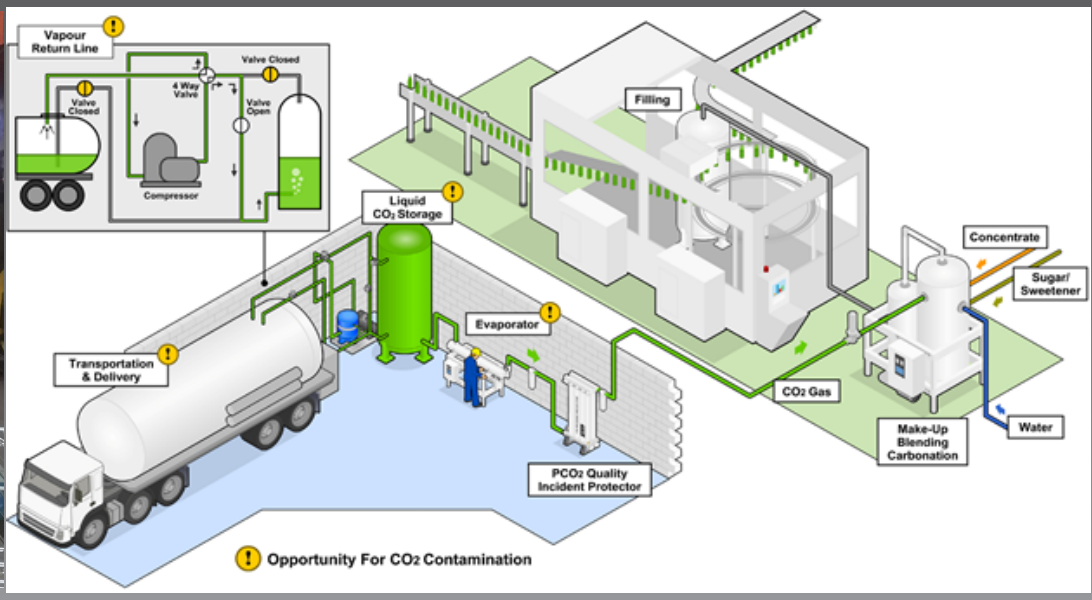
VS5000 CO2 Gas Purity Monitor

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

Direct purity measurements 24x7
Benzene, Acetaldehyde, Hydrocarbons as Methane, Sulfur Dioxide

The VS5000 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 VS5000 Gas Purity Monitor measures four concentrations and temperature simultaneously in one rack mountable box.

Real-time, inline concentration readings available for:

- Aromatic Hydrocarbons as Benzene
- Acetaldehyde
- Volatile Hydrocarbons as Methane
- Sulfur Dioxide
- Moisture

Precision Infrared Measurements of Gas Contaminents— The VS5000 provides concentration and temperature readings for CO2 gas in a truck, pre-filter or post-filter.The VS5000 is designed to be a plug and play replacement for the Pulsar series Gas Purity sensor.

Maintenance and Cost Savings — The VS5000 is a state of the art, solid state device which contain no moving parts and requires much less maintainence then the current gas purity sensors.

Improved Plant and Asset Utilization — The proven reliability, accuracy and repeatability of the VS5000 Sensors provide plant personnel with real-time process control data for monitoring gas impurities 24x7.

Networked Devices Providing Real-Time Data — VS5000 sensors can be implementedas standalone units or as part of a process control network under PLC control.

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VS5000 Product Specifications

System includes Gas Purity Monitor, Windows™-based software

Part #s	VS5000 CO2 Purity Monitor Measuring Benzene, Acetaldehyde, Hydrocarbons as Methane, Sulfur Dioxide, Moisture				
Parameter Measured	Benzene	Acetaldehyde	Methane	Sulfur Dioxide	Moisture
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	15C to 40C – 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)	