

BV5000 CO2 Gas Purity MONITOR

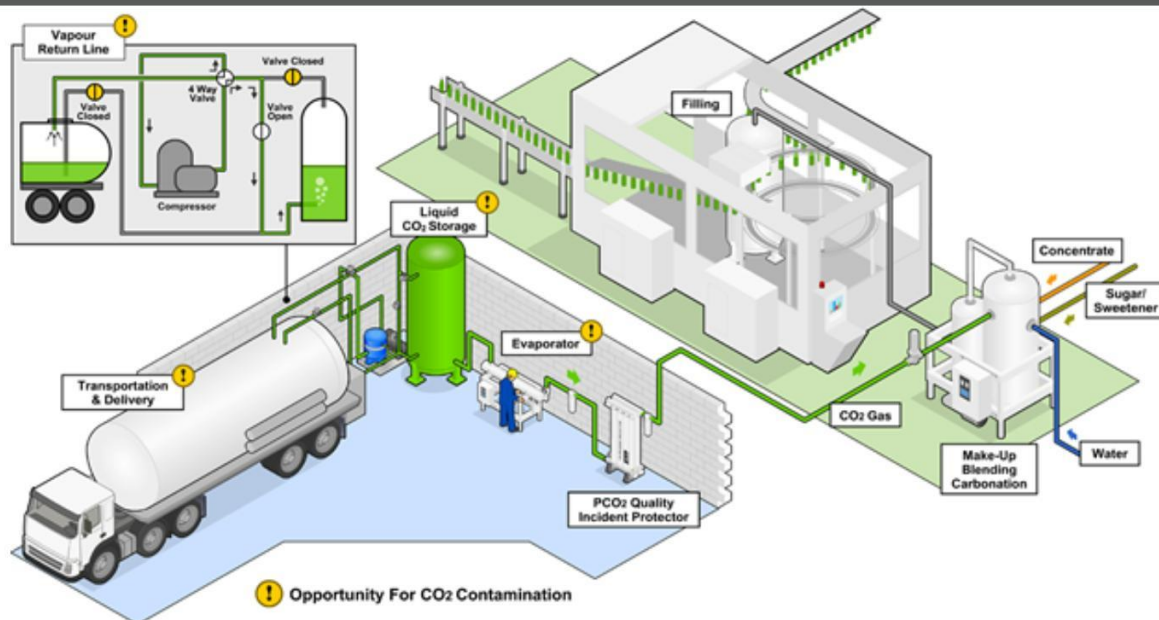
Infrared Inline Gas Purity sensor measuring at Truck, Prefilter and Post filter

BevSense

Direct purity measurements 24x7

Benzene, Acetaldehyde, Hydrocarbons as Methane, Sulfur Dioxide

The BV5000 Gas Purity Sensor measures gas contaminants real-time 24x7. Concentrations are measured directly, not inferred or calculated. BV5000 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 BV5000 Gas Purity Monitor measures four concentrations and temperature simultaneously in one rack mountable box.

Easy to use software allows control of the system at multiple Ethernet connections, allowing you to have access to test data and alarms where you need it. Certificates of Compliance and testing history are easily printed.

Real-time, inline concentration readings are available for:

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

BV5000 Features:

Four Sampling Points

Allows sampling 4 locations making finding the source of a contaminant easier.

Used to measure at the truck, before the filter, after the filter and in between filters if multiple filters are used.

BV5000 Options:

Truck Control Panel

Used by bottlers who receive CO2 by truck. Automates change to truck testing and back to ongoing testing at the tank and at the filters. Incorporates pressure and temperature controls and automation to measure liquid CO2 at a tank during a CO2 truck delivery and to switch back to the ongoing testing at the filters.

- Decreases User Errors -- huge benefit.

Real-Time PLC

Allows BV5000 to automatically stop the bottling line if user defined levels of contaminants are detected. This protects the brand, tanks and products. BV5000 sensors can be implemented as standalone units or as part of a process control network under PLC control.

Moisture Module

Allows measurement of Moisture (very important when measuring food grade CO2).

Protects BV5000 from moisture.

Temperature Controlled Rack

Keeps the BV5000 at an acceptable temperature range in hot locations protecting internal electronics.

BevSense

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BV5000 Product Specifications

System includes Gas Purity Monitor, Windows™-based software

Part #s	BV5000 CO2 Purity Monitor Measuring AOC's as C6H6 , Acetaldehyde, VOC's as CH4, Sulfur Dioxide, Moisture				
Parameter Measured	Benzene	Acetaldehyde	VOC's as CH4	Sulfur Dioxide	Moisture
Measuring Range	0 – 100 ppb	0 - 10 ppm	0 - 100 ppm	0 - 10 ppm	
Specification	20 ppb	.2 ppm	50 ppm VOC's as Methane 20 ppm THC's	1.0 ppm	
Accuracy	1.0 ppb	.001 ppm	1.0 ppm	.01 ppm	
Resolution	1.0 ppb	1.0 ppb	0.01 ppm	0.001 ppm	

Repeatability

Measuring Method	Spectrometer with long pass gas sampling
Measuring Interval	500 ms
Data Output Interval	6 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	22 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 10 PC, Truck Control Unit interface Windows 10 IP67 tablet

Display Touchscreen	Concentration(s)
Cable	Standard Cat-5 Ethernet
I/O	Ethernet
Fieldbus Interfaces	EtherNet/IP
Power	24VDC @ 200 Watts
Dimensions (WxHxD BV5000)	BV5000 23.5W x 26.64D x 42.14 H, Truck Control Unit 24" H x 19.8W x 17.5D
Enclosure	22u LINIER Swinging Wall Mount Rack Cabinet, Nema 4 Stainless Truck Control unit enclosure
Ambient Temperature	15°C to +40°C
Shipping Weight (Total System)	233 pounds BV5000, 114 pounds Truck Control Unit