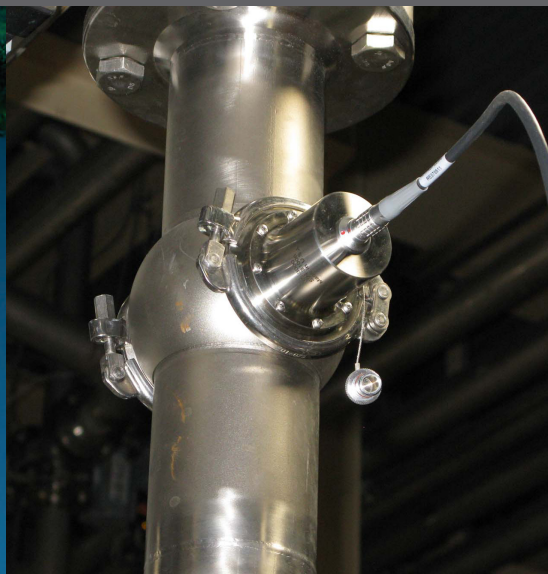


VS-3000E BEVERAGE AND SOFT DRINK MONITOR Infrared Inline Process Control Sensor

Direct real-time ingredient measurements 24x7
CO₂, Brix/Sugars and Organic Acid (for inline Diet)

BevSense

The VS-3000E Beverage and Soft Drink Monitor measures dissolved ingredients real-time 24x7. Ingredients are measured directly, not inferred or calculated. VS-3000E is easy to install, easy to integrate and has a low cost of ownership.



BevSense LLC is the leader in innovative, inline instruments for the food, beverage and pharmaceutical industries. The VS-3000E Beverage and Soft Drink Monitor measures up to three concentrations simultaneously using one economical sensor.

Real-time, inline concentration readings available for dissolved:

- Dissolved Brix/Sugars
- Dissolved Organic Acid (for inline Diet)
- Dissolved CO₂

Precision Infrared Measurements of Process Contents — VS-3000E Sensors provide real-time concentration and temperature readings for fluids in a process stream or in a tank. VS-3000E Sensors can be implemented in flow or no flow conditions and are not affected by pressure spikes, density, color, viscosity or extreme working conditions.

Maintenance and Cost Savings — VS-3000E series sensors are state of the art, solid state devices which contain no moving parts and require no maintenance. MTBF \geq 50,000 hrs.

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 and blending 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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Product Specifications



System includes inline sensor, cable, Sensor Management Station with local display and Windows™-based software

Part #s Parameter Measured	VS-3000EBSM (Brix, CO ₂), VS-3000EBSMA (Brix, CO ₂ , Organic Acid/Diet) or VS-3000EBSBA (Brix, Organic Acid/Diet) Brix	CO ₂	Organic Acid (for inline Diet)
Measuring Range	0 – 20° Brix standard 0 -100° Brix customizable 0 – 2000 mBrix	0 to 6 v/v 0 to 12,000 ppm 0 to 12,000 mg/L 0 to 12 g/L	0 – 5 w/w standard 0-100 w/w % customizable
Accuracy	± .01° Brix ± .1° mBrix	± .02 v/v ± 39.2 ppm ± 39.2 mg/L or .0392 g/L	± .005 w/w %
Resolution	.01° Brix	.01 v/v 1 ppm 1 mg/l or .001 g/L	.01 w/w %
Repeatability(8 hour test)	.008° Brix	.008 v/v 16 ppm 16 mg/l or .016 g/L	.008 w/w %

Measuring Method	Mid Infrared spectrometer with Attenuated Total Reflectance (ATR) sampling
Measuring Interval	100 ms
Data Output Interval	100 ms to 30s (user defined)
Operating Process Temperature (in 40°C / 104°F spans)	-2°C / 28.4°F to 85°C / 185°F – Standard Models 120°C / 248°F – Extended Temperature Model (with cooling jacket)
Temperature Display Range	-5°C to +85°C (+23°F to 185°F)
Maximum CIP Temperature	85°C / 185°F (standard model) 120°C / 248°F (extended temperature model)
Maximum Line Pressure	10 bar (150 psi)
Process Connection	68mm Tuchenhagen Varinline® connection fitting (DN65)
Dimensions (Sensor)	82.6mm (3.25 in) W x 82.6mm (3.25 in) H x 82.6mm (3.25 in) D
Enclosure	IP68 (NEMA4)
Shock Resistance	100G 1/2 sine wave or 6 foot drop on concrete

Operator Interface – VS-300 Sensor Management Station or VS-200 Sensor Management Station (DIN Rail Mounted)	
Display	Concentration(s), Temperature and Time on four-line VFD display
Cable (Distance to Sensor)	4.6m (15 ft.)
I/O	Digital I/O board for Remote IN/Relay OUT up to 64 brands - - (VS-300 only)
Fieldbus Interfaces	4-20mA, Ethernet, EtherNet/IP and DIO (standard) Profibus DP (optional)
Power	120/240 VAC, 50-60 Hz (auto sensing) or 24VDC
Dimensions (WxHxD VS-300 SMS)	222.3mm (8.75in) W x 290.8mm (11.5 in) H x 139.7mm (5.5 in) D
Enclosure	IP67 (NEMA4) ATEX optional
Ambient Temperature	-5°C to +40°C (+23°F to 104°F)
Shipping Weight (Total System)	9.07 kg (20 lbs)
Approvals	CE, FCC, VCCI Class A, AS/NZS Class A