VS-3000E BEER, WINE AND FERMENTATION MONITOR **Infrared Inline Process Control Sensor**



Direct real-time ingredient measurements 24x7 Alcohol, CO2, Real Extract, Temperature, Specific Gravity, Real Degree of Fermentation and Original Extract

> The VS-3000E Beer and Wine Monitor measures dissolved ingredients real-time 24x7. Concentrations are measured directly, not inferred or calculated. VS-3000E 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-3000E Beer and Wine Monitor measures up to four concentrations and temperature simultaneously using one sensor.

Real-time, inline concentration readings available for dissolved:

- Alcohol / Ethanol
- Real Extract
- (02
- Specific Gravity (calculated)
- Original Extract (calculated)
- Real Degree of Fermentation (calculated)

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 100,000 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-3000EBM (Alcohol / Rea Ethanol/Alcohol	Extract / CO2) and VS-3000EBMAE (Real Extract	Alcohol / Extract) CO2	
Measuring Range	o – 20 w/w % standard o - 100 w/w % customizable o – 20 v/v%	o - 20° Plato Real Extract o - 20° Plato Original Extra	o to 6 v/v ct o to 12,000 ppm o to 12,000 mg/L o to 12 g/L	
Accuracy	± .016 W/W % ± .02 V/V %	± .01° Brix ± .01° Plato	\pm .02 v/v \pm 39.2 ppm \pm 39.2 mg/L or .0392 g/L	
Resolution	.01 w/w % .01 v/v %	.01° Brix .01° Plato	.01 v/v 1 ppm 1 mg/l or .001 g/L	
Repeatability (8 hour test)	.01 w/w % .01 v/v %	.oo8° Brix .oo8° Plato	.008 v/v 16 ppm 16 mg/l or .016 g/L	
Measuring Method		Mid Infrared spectrometer with Atter	nuated 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 Model 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		
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-3 0 Display	oo Sensor Management Statio	or VS-200 Sensor Management Sta Concentration(s), Temperature and T		
Cable (Distance to Sensor))	7.62m (25 ft.)		
1/0		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)		
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		

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