

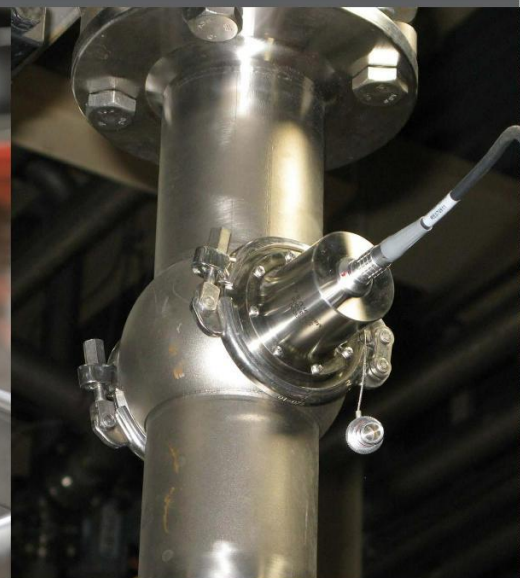
BV3000E Beer, Wine and Fermentation Monitor

Infrared Inline Process Control Sensor

BevSense

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

The BV3000E Beer and Wine Monitor measures dissolved ingredients real-time 24x7. Concentrations are measured directly, not inferred or calculated. The BV3000E 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 BV3000E 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
- CO₂
- Specific Gravity (calculated)
- Original Extract (calculated)
- Real Degree of Fermentation (calculated)



Precision Infrared Measurements of Process Contents — BV3000E Sensors provide real-time concentration and temperature readings for fluids in a process stream or in a tank. BV3000E 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 — BV3000E series sensors are state of the art, solid state devices which contain no moving parts and require no maintenance. MTBF ≥ 100,000 hrs.

Improved Plant and Asset Utilization — The proven reliability, accuracy and repeatability of the BV3000E Sensors provide plant personnel with real-time process control data for monitoring and blending 24x7.

Networked Devices Providing Real-Time Data — BV3000E sensors can be implemented as standalone units or as part of a process control network under PLC control.

BevSense

29 Glenwood Avenue
Newton, MA 02459 USA
978-758-3308

bob.oleary@beveragesensors.com
www.beveragesensors.com

Product Specifications

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

Part #s	BV3000EBM (Alcohol / Real Extract / CO2) and BV3000EBMAE (Alcohol / Extract)		
Parameter Measured	Ethanol/Alcohol	Real Extract	CO2
Measuring Range	0 – 20 w/w % standard 0 - 100 w/w % customizable 0 – 20 v/v%	0 - 20° Plato Real Extract 0 - 20° Plato Original Extract	0 to 6 v/v 0 to 12,000 ppm 0 to 12,000 mg/L 0
Accuracy	± .016 w/w % ± .02 v/v %	± .01° Brix ± .01° Plato	± .02 v/v ± 39.2 ppm ± 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 %	.008° Brix .008° Plato	.008 v/v 16 ppm 16 mg/l or .016 g/L
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 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 – BV302 Sensor Control Rack			
Display	BV3000E Sensor Monitor on Touchscreen Display		
Cable (Distance to Sensor)	7.6m (25 ft.)		
I/O	4-20mA for Remote In available with PLC option 4-20mA outputs available		
Fieldbus Interfaces	Ethernet, EtherNet/IP standard		
Power	120/240 VAC, 50-60 Hz (auto sensing) Sola power conditioning		
Dimensions (WxHxD BV300 SMS)	36.30 in (922 mm) H in 23.62 in (600mm) W x 24.02in (610mm) D tIP67 (NEMA4)		
Enclosure	IP65 (NEMA4) ATEX optional		
Ambient Temperature	-5°C to +40°C (+23°F to 104°F)		
Shipping Weight (Total System)	68 kg (150 lbs)		
Approvals	CE, FCC, VCCI Class A, AS/NZS Class A		

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p/n BV3000EBM/ps0112