

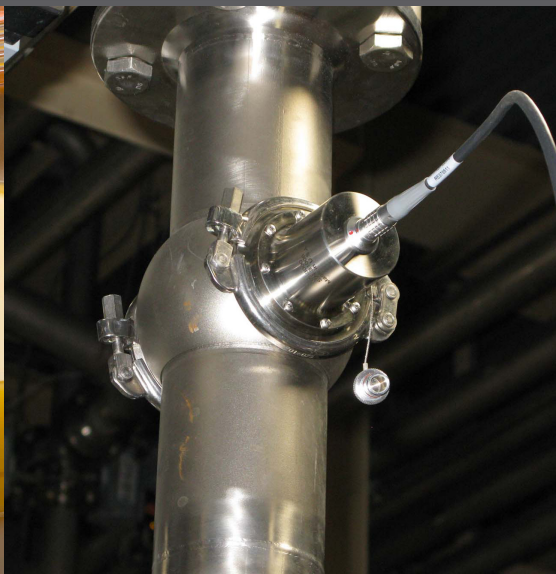
VS-3000E JUICE AND DIET BEVERAGE MONITOR

Infrared Inline Process Control Sensor

BevSense

Real-time ingredient measurements 24x7
Brix°, Acid, Brix°/Acid Ratio and Temperature

The VS-3000E Juice and Diet 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 LLC is the leader in innovative, inline instruments for the food, beverage and pharmaceutical industries. Juice and soft drink producers can use the VS-3000E Juice and Diet Beverage Monitor to measure up to three concentrations simultaneously using one small economical sensor.

Real-time, inline concentration readings for dissolved:

- Brix° / Sugars
- Organic Acid (TA)
- Brix° / Acid Ratio
- Temperature

Precision Infrared Process Measurements — 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 high technology solid state devices which contain no moving parts and require no maintenance. MTBF \geq 50,000 hrs.

Improved Plant and Asset Utilization — Reliable and accurate 24x7 measurement data leads to fewer line stops, alarms and product waste.

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 | VS-3000EBSMJ-SS (Brix°, Total Organic Acids (TA) and Brix°/Acid Ratio) | | |
| Parameter Measured | Brix° | Organic Acid (TA) for inline Diet | Brix°/Acid Ratio |
| Measuring Range | 0 – 20° Brix° standard 0 -100° Brix° customizable 0 – 2000 mBrix° | 0 – 5 w/w standard 0-100 w/w % customizable | n/a |
| Accuracy | ± .01° Brix° ± .1° mBrix° | ± .005 w/w % | n/a |
| Resolution | .01° Brix° | .01 w/w % | .01 |
| Repeatability (8 hour test) | .008° Brix° | .008 w/w % | n/a |
| 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 -2°C / 28.4°F to 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 or similar (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, 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) | 8.17 kg (18 lbs) | | |
| Approvals | CE, FCC, VCCI Class A, AS/NZS Class A | | |

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