

# INLINE SOFT DRINK MONITOR

## Applications

- Beverage



## Simplify your quality control with the only direct inline measurement of Brix, CO<sub>2</sub>, and Total Acid, all in one sensor.

VitalSensors infrared inline sensor measures up to three concentrations simultaneously: dissolved Brix/ Sugars, CO<sub>2</sub>, and Total Acid. The sensor is easy to install and integrate, and has a low cost of ownership.

### Constant, Accurate Quality Readings

Readings are taken 24 times per second via optical sensors; measurements are not affected by pressure, density, color, viscosity or extreme conditions.

### Minimal Maintenance

The solid state sensor only requires routine CIP to ensure accuracy.

### Programmed for Your Product Line

After a thorough commissioning process, the instrument is programmed for each of the products running through your line. This reduces the need for operator interaction and costly and time-consuming measurements and calculations.

### Meet Your Reporting Requirements

All previous product quality data is easily accessible via the instrument and any connected PC.



Be Right™

## Specifications\*

<b>Range</b>	CO <sub>2</sub> : 0 - 6 v/v 0 - 12000 ppm 0 - 12000 mg/L or 0 - 12 g/L	<b>Measuring Interval</b>	100 ms
	Brix: 0 - 20° Brix standard 0 - 100 ° Brix customisable 0 - 2000 mBrix	<b>Data output interval</b>	500 ms to 30 s (user defined)
	Total Acid: 0 - 5 w/w standard 0 - 100 w/w % customisable	<b>Temperature</b>	-2 °C to 85 °C/28.4 °F to 185 °F (standard model) Operating Process spans max. 40 °C/104 °F 120 °C/248 °F (extended temperature model, with cooling jacket)
<b>Accuracy</b>	CO <sub>2</sub> : ±0.02 v/v ±39.2 ppm ±39.2 mg/L or 0.0329 g/L	<b>Temperature Range</b>	Display: -5 °C to 85 °C (23 °F - 185 °F)
	Brix: ±0.01° Brix ±0.1 mBrix	<b>Temperature</b>	85 °C/185 °F (standard model), 120 °C/248 °F (extended temperature model)
	Total Acid: ±0.005 w/w %	<b>Maximum Line Pressure</b>	10 bar (150 psi)
<b>Repeatability</b>	CO <sub>2</sub> : 0.008 v/v 16 ppm 16 mg/L or 0.016 g/L	<b>Fitting type</b>	68 mm Tuchenhausen Varinline® connection fitting
	Brix: 0.008° Brix	<b>Dimensions</b>	Sensor: 3.25 in x 3.25 in x 3.25 in Sensor Management Station: 8.75 in x 11.5 in x 5.5 in
	Total Acid: 0.008 w/w %	<b>Enclosure Rating</b>	IP66 (Sensor Management Station)
<b>Resolution</b>	CO <sub>2</sub> : 0.01 v/v 1 ppm 1 mg/L or 0.001 g/L	<b>Display</b>	Concentration(s), Temperature and Time on four-line VFD display
	Brix: 0.01° Brix	<b>Cable</b>	4.6 m / 15 ft. (distance to sensor)
	Total Acid: 0.01 w/w %	<b>Interface</b>	Ethernet, EtherNet/IP (standard), PROFIBUS DP (optional)
<b>Measurement Method</b>	Mid Infrared spectrometer with Attenuated Total Reflectance (ATR) sampling	<b>Power Requirements (Voltage)</b>	120 - 240 V AC / 24 V DC
		<b>Ambient Temperature</b>	Sensor Management Station: -5 °C to 40 °C (23 °F - 104 °F)
		<b>Compliance Certifications</b>	VS-300: 24 V DC & 120-240 V AC EU (CE) VS-300: 24 V DC US & Canada
		<b>Includes</b>	System includes inline sensor, cable, Sensor Management Station with local display and Windows- based software

\*Subject to change without notice.

## Ordering Information

### Sensor

**DG3BSMA-SNAPS** Infrared inline sensor for soft drink applications, CO<sub>2</sub>, Brix, T.A., EthernetIP, PROFIBUS DP.

**Other options available. For additional configurations please contact your local HACH representative.**

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