The Model 9200 Ultrasonic Beverage Analyzer is the most efficient way to measure the Brix or sugar content in beverages regardless of the type of beverage. The controller is connected to a sanitary ultrasonic measuring probe. In the event of pulp being present in the beverage, the model 9270 hybrid sensors should be used.

Specific beverage calibration data can easily be entered using the Touch Screen. When programming a large number of calibrations in multiple instruments, a PC program is available for uploading the information.

The Model 9200 was developed for a fully automated production environment. Automatic calibration switching is done either through binary input, or by communication through the optional Ethernet or Profibus adapter.

The hybrid UWC sensor is used to measure both the dissolved and non-dissolved components. This consists of a PEEK wafer set between two flanges. As the material properties are all better than Teflon the wafer sensor is the best suited for non-intrusive measurements, including the status of CIP cleaning. As no part of the ultrasonic sensor comes into contact with the liquid being measured, there is no possibility of fouling and therefore no cleaning is required.

As the measurement of sugar is 10 to 100% more accurate than Refractive Index analyzers, all RI analyzers can be replace with hybrid ultrasonic technology probes.

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General Specifications

Method	Model 9200: Ultrasonic sound velocity with temperature correction Model 9270: Hybrid Ultrasonic Spectroscopy with UFTW probe with temperature correction
Inputs	Ultrasonic sensor of the type: UMP54 Hybrid sensor for model 9270 4-wire PT100 temperature sensor
Software	- Version 3.0 - Storage of 200 liquids or product codes - Concentration algorithm for calculation of concentration - Non-linear autom. temperature correction - Automatic continuous zero calibration
Read out	5,7“ B/W Touch screen display - On main screen with large characters: 1. Concentration of dissolved/emulsified component 2. Temperature 3. Trend analysis of concentration
Outputs	- 2 independently programmable 4-20 mA outputs for concentrations - 2 high-low limit alarms, SPDT, 240VAC, 3A. - RS232 Modbus RTU - Optional: Ethernet, Profibus, others...
Ranges	Auto ranging
Accuracy	+/- 0.1% of reading or 0.05% of range
Response time	0 to 90 s (adjustable)
Sample hold	External trigger can hold data during machine stands still
Datalogging	1 year continuous, once per minute, through USB stick
Housing	WPF: coated sheet steel wall mount IP65 enclosure SPLT: Split type OEM version, panel mount version with aluminium and galvanized steel housing and separate display. LAB: Desk top laboratory analyzer PORT: portable analyzer with accu and charger
Power	VAC: 90-240 VAC 50-60Hz, 10W VDC: 24VDC, 10 W
Manual	Operating and user manual