BRIX MEASUREMENT

BRIX MONITOR SONATEC

Brix Measurement by Sound Velocity

The BRIX MONITOR SONATEC is the SONATEC version for continuous Brix measurement in alcohol-free liquids such as syrup and soft drinks.



Brix Directly in the Process
The measured value is continuously available during production.

Sound Velocity Measurement
Brix is determined using SONATEC sound velocity measurement.

For Alcohol-Free Media
Designed for liquids containing no alcohol, e.g. syrup and soft drinks.

Measuring Principle

For sound velocity measurement, a piezoelectric element generates a sound pulse that is detected by a receiver. The transit time of the signal is used to determine sound velocity and evaluate the concentration.

Applications

- Syrup
- Soft Drinks
- Alcohol-Free Liquids
- Product Line
- Production Process
- Quality Control
- In-line Measurement

Temperature drift of the measurement signal is automatically compensated. European patent application: 1 439 438 B1.

Technical Data

The following data supports technical preselection and coordination of the measurement task, medium, installation situation and automation connection.

PARAMETER	BRIX MONITOR SONATEC
Measuring Range	0 - 80 °Brix
Accuracy	± 0,07 °Brix
Product Temperature During Measurement	-5 to +80 °C
Response Time	≤ 1 s
Operating Pressure	max. 16 bar
Operating Temperature / Temperature Sensor	-25 to +125 °C / Pt1000
Material	1.4404 / 1.4435 / AISI 316L; Hastelloy; tantalum; others on request
Input	1 x analog (4 - 20 mA) & 6 x digital (24 VDC)
Output / Fieldbus	2 x analog (4 - 20 mA) & 3 x digital (24 VDC) optional: PROFIBUS DP & PROFINET
Enclosure Rating	IP65
Power Supply	24 VDC

Highly Accurate Brix Determination

Ultrasonic measurement during production.

Display at the Measuring Point

A display at the measuring point is always possible.

Hygienic Design

Installation in standard VARIVENT housings Type N from DN 40 to DN 150 and with flange connections.

Design & Integration

We support you with the project-specific selection and integration of the **BRIX MONITOR SONATEC** - from measuring range and installation position to process connection and interfaces.

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