BRIX MEASUREMENT

BRIX MONITOR

Brix Measurement by Density or Sound Velocity

The BRIX MONITOR is a variant of RHOTEC or SONATEC and enables measurement of the sugar content in liquids that contain no alcohol, such as syrup and soft drinks.



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

Density or Sound Velocity
RHOTEC and SONATEC use different physical measurement principles.

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

Measuring Principle

The instrument uses the functionality of RHOTEC for density measurement or SONATEC for sound velocity measurement. A mathematical polynomial describes the relationship between concentration and density or sound velocity.

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
Measuring Range	0 - 80 °Brix
Accuracy	± 0,03 °Brix (RHOTEC) ± 0,07 °Brix (SONATEC)
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

Measurement of the Brix value during production.

Display at the Measuring Point

Depending on the version, the measured value can be read directly at the sensor.

Hygienic Design

Various materials and flange connections.

Design & Integration

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

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