BRIX MEASUREMENT

BRIX MONITOR RHOTEC

Brix Measurement by Density

The BRIX MONITOR RHOTEC is the RHOTEC 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.

Density Measurement
Brix is determined using the RHOTEC oscillating U-tube principle.

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

Measuring Principle

For density measurement, the liquid flows through a thin U-shaped tube in the sensor. The oscillation of the tube is detected; even small changes in density affect the signal and are precisely detected.

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 RHOTEC
Measuring Range	0 - 80 °Brix
Accuracy	± 0,03 °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

Density-based measurement 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 RHOTEC** - from measuring range and installation position to process connection and interfaces.

Centec GmbH
+49 6181 1878-0
info@centec.de
centec.de