CONCENTRATION MEASUREMENT

ALCOHOL-BRIX MONITOR

Simultaneous In-line Measurement of Alcohol and Brix

The ALCOHOL-BRIX MONITOR is a variant of COMBITEC and enables simultaneous measurement of alcohol and Brix during production.



Alcohol + Brix
Both product parameters are determined simultaneously during production.

High Measurement Performance
Designed for maximum sensitivity and highest accuracy.

Temperature Compensation
Temperature drift of the measurement signal is automatically compensated.

Measuring Principle

The ALCOHOL-BRIX MONITOR measures density and sound velocity simultaneously. Density measurement is based on the oscillating U-tube principle. For sound velocity measurement, a sound pulse is generated and detected by an ultrasonic receiver.

Applications

- Alcohol
- Brix
- Production Process
- Product Analysis
- Process Measurement
- Quality Control

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

Technical Data

The following data supports technical preselection of the ALCOHOL-BRIX MONITOR and project coordination.

PARAMETER	ALCOHOL-BRIX MONITOR
Alcohol / Measuring Range and Accuracy	0 - 25 vol. % / ± 0,03 vol. %
Brix / Measuring Range and Accuracy	0 - 25 °Brix / ± 0,04 °Brix
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; optional: ATEX (II 3G Ex ic IIC T6 Gc)
Power Supply	24 VDC

Alcohol and Brix

Both product parameters are determined simultaneously.

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 **ALCOHOL-BRIX MONITOR** - from measuring range and installation position to process connection and interfaces.

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