OFFICIALLY VERIFIED ALCOHOL MEASUREMENT

RHOTEC ALC-TAX

Officially Verified Alcohol Measurement by Density

RHOTEC ALC-TAX is a variant of RHOTEC for alcohol measurement during production when alcohol content must be determined using a certified instrument for tax purposes.



Certified Measurement
For alcohol determination relevant to taxation.

Very High Accuracy
PTB type with a verification error limit of 0,0001 g/cm³.

Oscillating U-Tube Principle
Density measurement with temperature compensation.

Measuring Principle

The liquid flows through a thin U-shaped tube in the sensor. Electromagnets excite the tube to oscillate at its resonant frequency. Even the smallest density changes affect the signal and are precisely detected.

Applications

- Alcohol Production
- Processes Relevant to Taxation
- Certified Measurement
- Density Measurement
- Production Process
- Quality Control

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

Technical Data

Technical data for the officially verified version and integration into the production process.

PARAMETER	RHOTEC ALC-TAX
Measuring Range	0 - 3 g/cm³
Accuracy	± 0,0001 g/cm³
Repeatability	± 0,00001 g/cm³
Response Time	≤ 1 s
Officially Approved Pressure Range	0 - 5 bar
Officially Approved Temperature Range	5 - 40 °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

Highest-Accuracy Alcohol Determination

Density measurement for processes relevant to taxation.

Approved and Certified

Approval by German authorities.

PTB Type Approval

Verification error limit 0,0001 g/cm³.

Design & Integration

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

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