ALCOHOL AND OECHSLE MEASUREMENT

# WINE MONITOR

## Simultaneous Measurement of Alcohol and Oechsle

The WINE MONITOR is a variant of COMBITEC and enables simultaneous measurement of alcohol and Oechsle. The instrument combines RHOTEC density measurement and SONATEC sound velocity measurement.




**Alcohol**
Measuring range 0 - 20 vol. %.

**Oechsle**
Measuring range 0 - 30 °Oechsle.

**Two Measurement Principles**
Density and sound velocity in one system.

## Measuring Principle

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. A mathematical polynomial describes the product-specific relationship.

## Applications

Wine | Alcohol | Oechsle | Production Process | Product Line | Quality Control

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

# Technical Data

Technical data for selection and integration.

| PARAMETER | WINE MONITOR |
|---|---|
| **Alcohol / Measuring Range and Accuracy** | 0 - 20 vol. % / ± 0,02 vol. % |
| **Oechsle / Measuring Range and Accuracy** | 0 - 30 °Oechsle / ± 0,07 °Oechsle |
| **Response Time** | ≤ 1 s |
| **Operating Pressure** | max. 16 bar |
| **Operating Temperature** | -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)<br>optional: PROFIBUS DP & PROFINET |
| **Enclosure Rating / Supply** | IP65 / 24 VDC |

### Simultaneous Measurement

Alcohol and Oechsle 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 **WINE MONITOR** - from measuring range and installation position to process connection and interfaces.

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