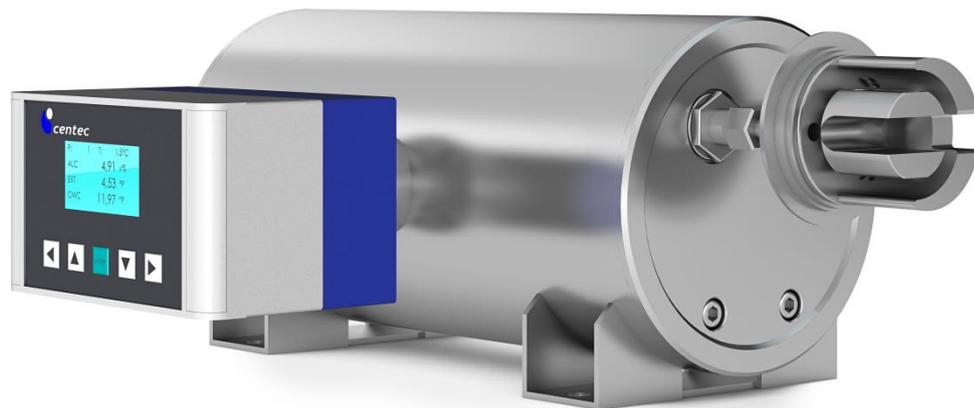


Measurement of Alcohol, Extract and Original Gravity

BEER MONITOR



The Principle

BEER MONITOR is a variant of COMBITEC and allows measuring simultaneously alcohol and extract in the brewing process. The original gravity is automatically calculated and displayed by the sensor. The instrument combines the functionality of both RHOTEC (density measurement) and SONATEC (sound velocity measurement) and is designed for applications requiring maximum sensitivity and highest accuracy. It is easy to operate and maintenance-free. The density measurement is based on the oscillating U-tube principle. For sound velocity measurement a sound pulse is created by a sonic transmitter and detected by a sonic receiver. As a specific property of each liquid, the correlation between concentration and density resp. sound velocity can be described by a mathematical polynomial. With decades of experience and our own laboratory facilities, Centec know the polynomials for a large number of products. Any temperature drifts of the measured signal are automatically compensated for.

Technical Data

Alcohol Measurement Range	0 - 12,5 vol. % ± 0,02 vol. %
Extract Measurement Range	0 - 10 mass % ± 0,02 mass %
Original Gravity Measurement Range	0 - 25 °Plato ± 0,03 °Plato
Response Time	≤ 1 s
Pressure of Operation	max. 16 bar
Temperature of Operation	- 25 - + 125 °C (Pt1000)
Material	1.4404/1.4435/AISI 316L; Hastelloy; Tantalum; etc.
Input	10 x digital (24 VDC) & 2 x analog (4 - 20 mA)
Output	5 x digital (24 VDC) & 4 x analog (4 - 20 mA)
Profibus DP	option
Enclosure Rating	IP65
Power Supply	24 VDC

Highlights

Very accurate determination of alcohol, extract and original gravity
Patented compact design with local display available
Hygienic execution; various materials and flange connections

The Centec Group

Centec offer fully automated, skid-mounted process units and high precision measurement technology from a single source. Our systems and sensors are engineered to perfectly meet the most demanding requirements of the brewery, beverage, food and pharmaceutical industries. With a team of experienced engineers, we aim to create quantifiable added value for our customers. We are your partner from planning and design through to commissioning of your plant.



ProDetec Pty.Ltd.

P. +61 (02) 9620 8700

F. +61 (02) 9620 8755

E. info@prodetec.com.au

A. 17/38 Powers Rd,
Seven Hills NSW 2147
www.prodetec.com.au

Centec
Gesellschaft für Labor- & Messtechnik mbH
Wilhelm-Röntgen-Strasse 10
63477 Maintal. Germany

+49 6181 1878-0

+49 6181 1878-50

info@centec.de

centec.de
centec.cz
centec-uk.com
centec-usa.com
centecrrr.com