ORIGINAL GRAVITY MEASUREMENT

PLATO MONITOR

Original Gravity Measurement by Sound Velocity

The PLATO MONITOR is a variant of SONATEC for measuring the original gravity of beer during brewing. It is used for brand identification, phase separation and blending during beer filtration and before filling.



Sound Velocity
Original gravity measurement using SONATEC technology.

Brand Identification and Phase Separation
Use during the brewing process.

Filtration and Filling
Blending during beer filtration and before filling.

Measuring Principle

For sound velocity measurement, an ultrasonic transmitter generates a sound pulse that is detected by an ultrasonic receiver. The measured transit time is evaluated in °Plato using a product-specific polynomial.

Applications

Beer | Brewing Process | Brand Identification | Phase Separation | Blending | Beer Filtration | Filling

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 project coordination.

PARAMETER	PLATO MONITOR
Measuring Principle	Sound Velocity Measurement / SONATEC
Measuring Range	0 - 25 °Plato
Accuracy	± 0,05 °Plato
Product Temperature During Measurement	-3 to +25 °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 Original Gravity Measurement
Determination during the brewing process.

Brand Identification and Phase Separation
Use during filtration and blending.

Hygienic Design
Various materials and flange connections.

Design & Integration

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

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