

The Automated Lab for the Beverage Industry

ALAB 5000 Analytic



The ALAB 5000 Analytic brings automated quality control to the beverage industry – delivering precision-driven, fully automated multi-parameter measurement for beverage quality control.

FIND OUT MORE



[www.anton-paar.com/
apb-alab-5000-analytic](http://www.anton-paar.com/apb-alab-5000-analytic)

Engineered for seamless integration into production environments, the ALAB 5000 Analytic combines Anton Paar's cutting-edge analytical instruments with decades of expertise in quality control. Designed to provide fast, at-line testing, it ensures superior quality for beverages such as beer, soft drinks, and water.

The system delivers comprehensive gas analysis for carbonated drinks by precisely measuring total package oxygen (TPO) and CO₂ levels. Additionally, its advanced density measurement calculates extract concentration and sugar content (°Brix), while modules for alcohol, color, pH, and haze expand its capabilities to meet diverse beverage testing needs.

Efficiency boost, plus reduced operator dependency

- Consistent sample preparation without operator influence, guaranteeing precise, reproducible gas analysis for TPO and CO₂
- Real-time results at the production line, avoiding costly out-of-spec production
- Intuitive user interface, minimizing the need for extensive training

Enhanced compliance and measurement accuracy

- Automatic cleaning and system checks, ensuring reliable, reproducible measurements and minimizing the risk of non-conformance
- No need for specialized (and costly) QC teams for routine checks – any production team member can act on deviations
- Measurement data securely stored and automatically transferred to the LIMS system for seamless record-keeping

Versatile solution for every package

- Testing of a wide range of package types and sizes
- Seamless integration of all Anton Paar instruments into one automated solution, simplifying laboratory operations
- Operate as a stand-alone system or connected to the filler line



ALAB 5000 Analytic



Oxygen in the gas phase	0 hPa to 45 hPa (trace range sensor) 0 hPa to 1,000 hPa (wide range sensor)
Dissolved oxygen	0 ppm to 2 ppm (trace range sensor) 0 ppm to 45 ppm (wide range sensor)
Density	0 g/cm ³ to 3 g/cm ³
Alcohol (optional)	0 % v/v to 12 % v/v
Original extract (optional)	0 °Plato to 30 °Plato
Color (optional)	0 EBC to 120 EBC
CO₂ concentration	0 vol. to 5.5 vol. at 35 °C, 0 vol. to 10 vol. at <10 °C
Turbidity (optional)	0 EBC to 100 EBC 0 NTU to 400 NTU
pH value (optional)	pH 0 to pH 14
Typical measurement time per sample	8 min
Ambient temperature	2 °C to 49 °C
Relative humidity (not condensing)	at 2 °C to 35 °C: 0 % to 90 % at >35 °C: 0 % to 50 %
Package diameter	55 mm to 95 mm
Package height	80 mm to 300 mm
Package volume	150 mL to 2,000 mL
Package types	Glass bottles, aluminum bottles, and aluminum cans, or PET
Dimensions (L x W x H)	1,750 mm x 880 mm x 2,430 mm (TPO housing) 560 mm x 950 mm x 2,110 mm (Multiparameter measurement system housing)