

# The Automated Lab for the Beverage Industry

**ALAB 5000 Analytic**



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

[www.anton-paar.com/  
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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 CO<sub>2</sub> 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 CO<sub>2</sub>
- 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**



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| <b>Oxygen in the gas phase</b>             | 0 hPa to 45 hPa (trace range sensor)<br>0 hPa to 1,000 hPa (wide range sensor)                                       |
| <b>Dissolved oxygen</b>                    | 0 ppm to 2 ppm (trace range sensor)<br>0 ppm to 45 ppm (wide range sensor)   |
| <b>Density</b>                             | 0 g/cm³ to 3 g/cm³   |
| <b>Alcohol (optional)</b>                  | 0 % v/v to 12 % v/v  |
| <b>Original extract (optional)</b>         | 0 °Plato to 30 °Plato  |
| <b>Color (optional)</b>                    | 0 EBC to 120 EBC   |
| <b>CO<sub>2</sub> concentration</b>        | 0 vol. to 5.5 vol. at 35 °C,<br>0 vol. to 10 vol. at <10 °C  |
| <b>Turbidity (optional)</b>                | 0 EBC to 100 EBC<br>0 NTU to 400 NTU   |
| <b>pH value (optional)</b>                 | pH 0 to pH 14  |
| <b>Typical measurement time per sample</b> | 8 min  |
| <b>Ambient temperature</b>                 | 2 °C to 49 °C  |
| <b>Relative humidity (not condensing)</b>  | at 2 °C to 35 °C: 0 % to 90 %<br>at >35 °C: 0 % to 50 %  |
| <b>Package diameter</b>                    | 55 mm to 95 mm   |
| <b>Package height</b>                      | 80 mm to 300 mm  |
| <b>Package volume</b>                      | 150 mL to 2,000 mL   |
| <b>Package types</b>                       | Glass bottles, aluminum bottles, and aluminum cans, or PET   |
| <b>Dimensions (L x W x H)</b>              | 1,750 mm x 880 mm x 2,430 mm (TPO housing)<br>560 mm x 950 mm x 2,110 mm (Multiparameter measurement system housing) |