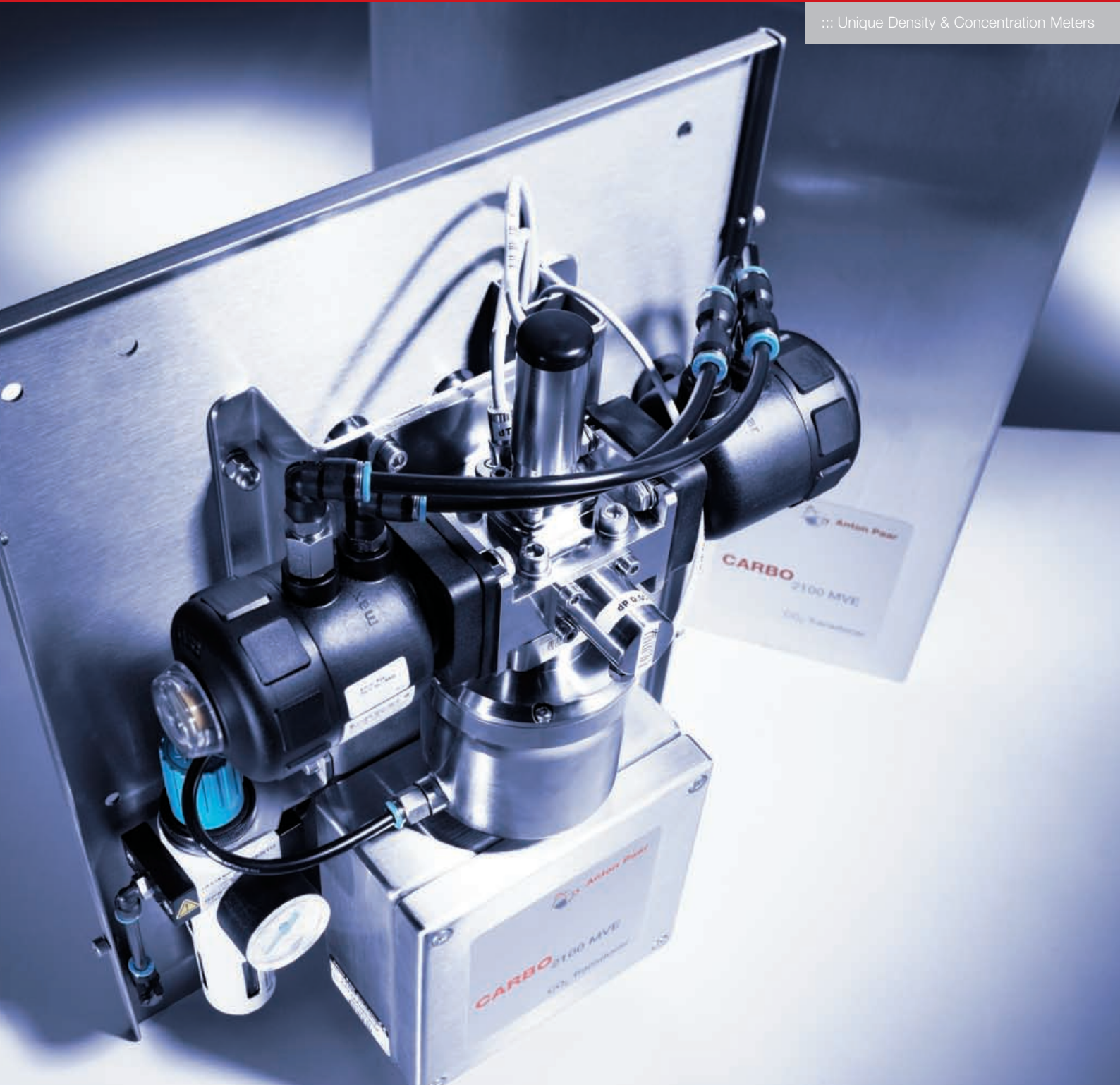




**Anton Paar**

::: Unique Density & Concentration Meters



## CARBO 2100 MVE

Online CO<sub>2</sub> Analyzer for beverages with high content of other gases like nitrogen

## Carbo 2100 MVE | Online CO<sub>2</sub> Analyzer

Consistent and accurate CO<sub>2</sub> content is one of the main quality factors in the production of beer, sparkling wine, soft drinks and mineral water. In combination with other dissolved gases not only the taste, but also product safety might be affected. Consumers are continually demanding more consistent beverage quality at lower cost. This can only be attained if breweries and bottling companies run at optimum quality levels from the first to the last minute of production.

Fast and accurate online CO<sub>2</sub> analyzers for monitoring and controlling the beverage production process are an essential prerequisite for accommodating such demands.

### Measuring Principle

The manometric principle based on Henry's law has been optimized for accuracy and velocity and forms the base for Anton Paar's patented Multiple Volume Expansion method, used to great advantage in Carbo 2100 MVE: No drift through membrane ageing, no time-consuming calibration, no use of purge gas.

By measuring the equilibrium pressures and the temperature of the sampled beverage at two different volume expansions, the CO<sub>2</sub> content and content of other gases are simultaneously determined. The influence of other gases on the CO<sub>2</sub> measurement is completely compensated.

Therefore, Carbo 2100 MVE is especially useful for carbonized beverages with a very high content of other gases such as nitrogen or oxygen.



### Specifications CO<sub>2</sub> transducer

Measuring range	0 to 20 g/L (0 to 10 Vol)
Accuracy	0.05 g/L (0.025 Vol)*
Repeatability	0.01 g/L (0.005 Vol)
Measuring temperature range	-5 to +30 °C (23 to 86 °F)
Maximum temperature	121 °C (250 °F)
Pressure	max. 10 bar (150 psi)
Cycle time	25 seconds
Air supply	10 bar compressed dry and clean air
Dimensions (W x H x D)	330 x 500 x 150 mm (13 x 19.7 x 5.9")
Classification	IP 65 (NEMA 4)
Sample connection	Thread G3/8" ISO 228 (parallel) Optional: Online Fitting DIN 11851 or VARIVENT™

### Highlights

- ▶ Only electrical power and a pressurized air supply are required for operation
- ▶ Drift-free measuring principle (requires no periodic re-adjustments)
- ▶ Extremely short measuring cycles, high accuracy
- ▶ Measurement of dissolved gases
- ▶ Suitable for aseptic applications
- ▶ Extremely robust design

### Anton Paar® GmbH

Anton-Paar-Str. 20, A-8054 Graz, Austria - Europe  
Tel: +43 (0)316 257-0, Fax: +43 (0)316 257-257  
E-mail: info@anton-paar.com, Web: www.anton-paar.com

### Instruments for:

Density & concentration measurement	High-precision temperature measurement
Rheometry and viscometry	Microwave synthesis
Sample preparation	X-ray structure analysis
Colloid science	CO <sub>2</sub> measurement



Specifications subject to change without notice.

Your distributor: