Inline CO$_2$ sensors

Speed meets excellence – the Carbo series (Carbo 5100/6100/6300) consists of low-maintenance and maintenance-free sensors for inline monitoring of dissolved CO$_2$ in beverages. Results are delivered within seconds.

Anton Paar's CO_2 sensors continuously deliver true CO_2 values for any beverage. Their total cost of ownership is outstandingly low. Carbo 6100 and Carbo 6300 are maintenance-free and EHEDG-certified. In addition to process monitoring, a reliable and stable closed-loop control of carbonators is possible due to the measuring interval of only 4 seconds. Carbo 5100 uses a well-established and proven measuring technology that enables the highest accuracy and reliability and requires minimum maintenance.

Highlights:

CO_2 sensor: Carbo 5100
- Proven measuring technology with decades of experience
- Suitable for beverages, also those containing fruit fibers or pulp
- Long service intervals and very easy maintenance for minimum downtime in production
- Designed according to EHEDG guidelines

Optical CO_2 sensor: Carbo 6100
- Maintenance-free for zero downtime in production
- Suitable for beverages, also those containing fruit fibers or pulp
- Patented technology[1] that eliminates the risk of incorrect measurements, e.g. right after hot cleaning (CIP)
- EHEDG-certified for hygienic applications

Optical CO_2 sensor: Carbo 6300
- Maintenance-free for zero downtime in production
- Product-independent measurement for any kind of beverage
- Patented technology[1] that eliminates the risk of incorrect measurements, e.g. right after hot cleaning (CIP)
- EHEDG-certified for hygienic applications

Technical specifications

	Carbo 5100	Carbo 6100	Carbo 6300
Measuring range	0 g/L to 20 g/L (0 vol to 10 vol)	0 g/L to 12 g/L (0 vol to 6 vol)	
Accuracy[2]	0.05 g/L (0.025 vol)	0.05 g/L (0.025 vol)	
Measuring interval	15 seconds	4 seconds	
Maximum temperature	+121 °C (max. 30 min)	<+95 °C (max. 4 h)	+130 °C (max. 30 min)
Self-diagnosis	Compliant with NAMUR NE 107 (self-monitoring and diagnosis)		
Degree of protection	IP 65 and IP 67		
Certifications	Designed according to EHEDG	EHEDG Type EL Class I	
Dimensions (W x H x D)	224 mm x 224 mm x 235 mm	142 mm x 142 mm x 220 mm	
Weight	approx. 8 kg	approx. 4 kg	

[1] AT512375B1, US9063083 B2 and CN103257125 B, other patents pending.
[2] Product-specific adjustment required for Carbo 6100

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