



## Carbo IT In-line Transmitter

CO<sub>2</sub> measurement independent of other dissolved gases.  
Simple installation, robust design

## Carbo IT

The Carbo IT Inline Transmitter from Anton Paar measures continuously and accurately the CO<sub>2</sub> content during beverage production, independent from any dissolved air.

The CO<sub>2</sub> concentration is shown on the display and output as a 4 - 20 mA analog signal or via the Profibus (option).

No separate evaluation unit is required, easy operation via 4 keys.



### Very simple installation

The Carbo IT is installed in the beverage line using a standard flange (Tuchenhagen VARIVENT™). A smooth stainless steel cylinder is immersed in the sample.

This stainless steel cylinder contains the flat cylindrical measuring chamber, which is completely filled with beverage or CIP cleaning agent when open. The construction is self-emptying and hygienic.

### Adjusted at the factory

The Carbo IT is adjusted at the factory and delivers correct measuring values from the very beginning. A calibration when mounted in the beverage line is not necessary except for any adjustments to customer-specific laboratory results.

### Monitoring product quality

The Carbo IT continuously delivers correct measuring values, even during long breaks without flow. The system is therefore also suited for quality control under the 'stop and go' conditions at the filler.

### Display

The CO<sub>2</sub> concentration, temperature, pressure and status are shown on the bright 4-line display.

### Construction

The measuring chamber of the Carbo IT is opened, closed and expanded pneumatically by a robust piston cylinder unit. The whole system is CIP compatible; all wetted parts are made of 1.4571 stainless steel and EPDM.

The Volume Expansion Method eliminates influence from any dissolved air.

### Technical data

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	-5 to +30 °C (23 to 86 °F)
Highest temperature	121 °C (250 °F)
Line pressure	max. 10 bar (150 psi)
Measuring interval	15 seconds
Compressed air supply	6-8 bar before the pressure regulator 4.5 bar after the pressure regulator
Required air quality	Class 5 according to DIN ISO 8573-1
Power supply	24V DC, 2A

### Inputs/outputs

- ▶ Relay output
- ▶ Analog output 4 - 20 mA active
- ▶ Digital input
- ▶ Optional: Profibus DP

## Anton Paar GmbH

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

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CO<sub>2</sub> measurement



Specifications subject to change without notice.

Your distributor:



### B-R Controls Pty Ltd

Unit 3, 95 Hunter Street  
HORNSBY NSW 2077  
Australia

Telephone: (+61) (02) 9476 2133  
Facsimile: (+61) (02) 9476 2688  
E-mail: mail@brcontrols.com.au  
Website: www.brcontrols.com.au