

# Data Sheet



## Description

The CO<sub>2</sub> meter type **DI-Traco** is used for the determination of the dissolved carbon dioxide content in beverages.

The whole measuring instrument consists of a CO<sub>2</sub> transmitter and a CO<sub>2</sub> converter.

### Typical applications:

- soft drinks
- mineral water
- cider
- beer
- champagne

The CO<sub>2</sub> transmitter is available in 2 different versions:

### ON-LINE:

A partial product flow is passed through the transmitter by means of differential pressure or by the aid of a pump.

### IN-LINE:

The transmitter is included in a special IN-LINE housing direct in the main line.

In case of both transmitter versions the product flows through 2 measuring chambers (glass cylinders). During the measuring phase the measuring chambers are automatically closed.

A mechanically caused expansion involves a CO<sub>2</sub> release in form of gas bubbles in the measuring chamber.

The occurring CO<sub>2</sub> gas pressure and the temperature are taken as a basis for the calculation of the dissolved CO<sub>2</sub> content in the beverage in the units g/l, %vol. or mg/l.

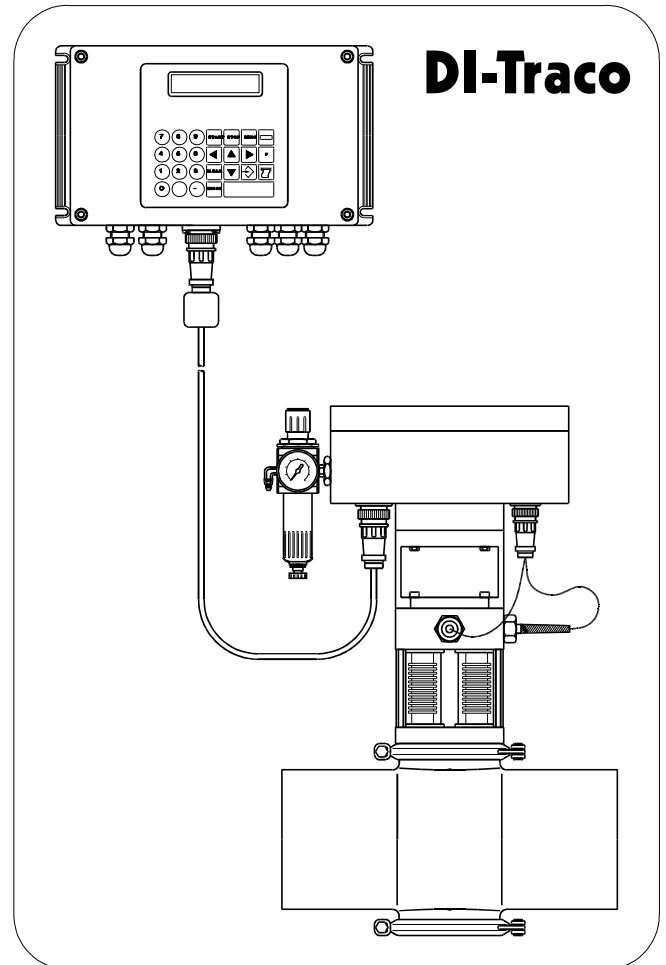
## Special features:

### Transmitter:

- installation into the product line or a by-pass line
- product-contacting parts made of stainless steel or glass
- suitable for CIP and SIP (120°C max., withstands steam sterilization)

### Converter:

- built-in double-line LCD with keyboard
- characteristic curves for different CO<sub>2</sub>-containing products available
- possible monitoring of limit values
- possible parameterization of up to 15 different "product sorts"
- language change: German, English, French, Spanish, and Italian
- internal monitoring of the measuring phase



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**CO<sub>2</sub> Meter**  
Type: **DI-Traco**

**D 23.25 E**

Issued: 11.2000

Page -1- of -4- pages

## Technical data

### CO<sub>2</sub> transmitter

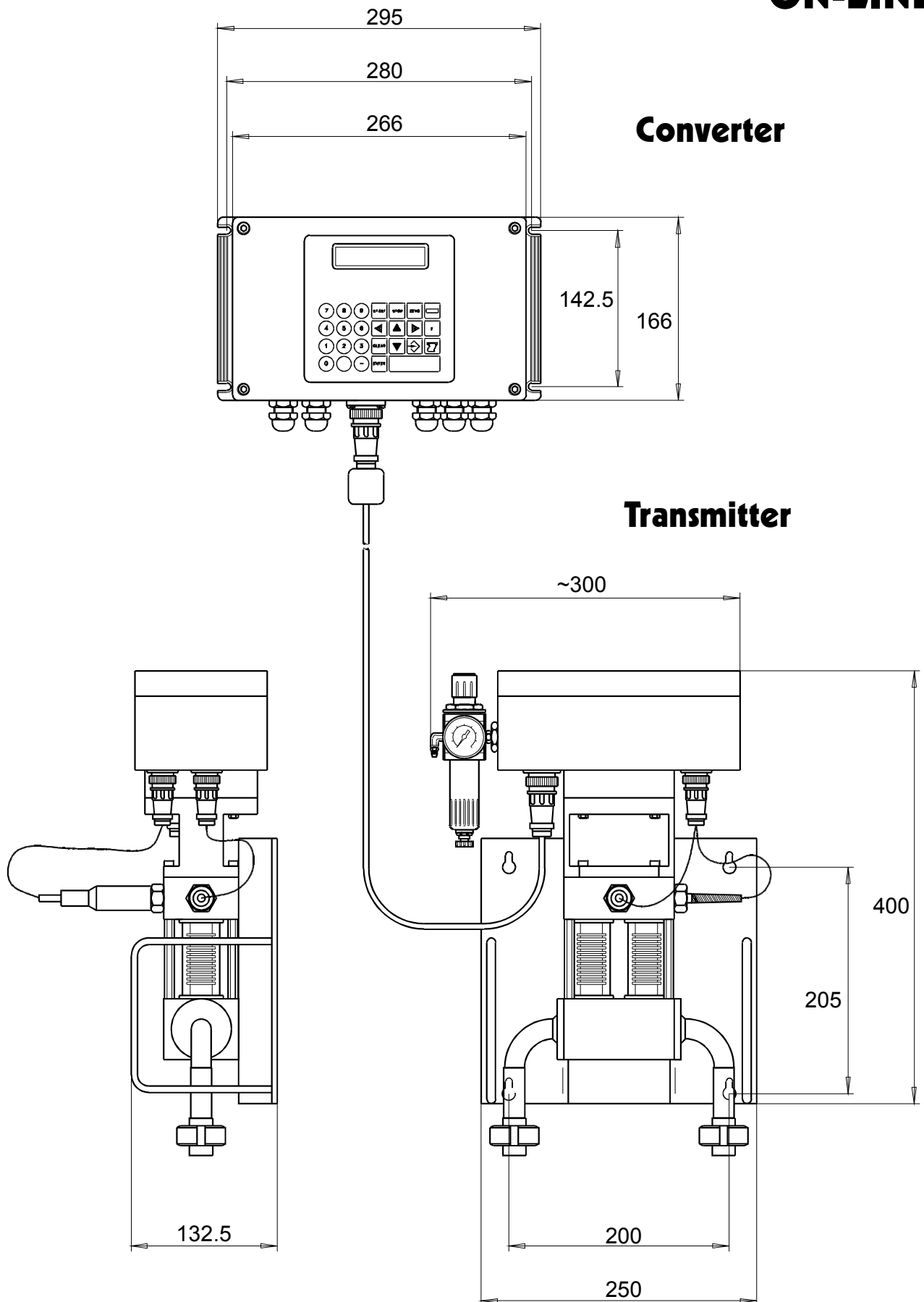
<b>Mass</b>	<b>ON-LINE version:</b>	13 kg
	<b>IN-LINE version:</b>	16 kg
<b>Operating pressure</b>	30 bar max.	
<b>Pressured air supply</b>	4 bar min., 10 bar max. (drive of the measuring piston)	
<b>Pressure fall for IN-LINE</b>	0,2 to 0,8 bar	
<b>Measuring temperature</b>	-2 up to 30°C	
<b>Cleaning</b>	CIP and SIP (steam sterilization up to 120°C max.)	
<b>Connections</b>	<b>ON-LINE version:</b>	DN15 (DIN11851)
	<b>IN-LINE version:</b>	DN50; 65; 80, and 100 mm

### CO<sub>2</sub> converter

<b>Mass</b>	2 kg	
<b>Measuring range</b>	0 – 10 g/l	0 - 5 %vol.
<b>Measuring accuracy</b>	±0.1 g/l	±0.05 %vol.
<b>Measuring cycle</b>	typical 30 seconds / parameterizable	
<b>Dissolution</b>	0.01 g/l	
<b>LCD</b>	<b>2 x 20 characters for:</b>	CO <sub>2</sub> concentration pressure and temperature
<b>Keyboard</b>	25 keys for the operation	
<b>Supply voltage</b>	85 V up to 260 V	47 Hz up to 63 Hz
<b>Power consumption</b>	35 VA	
<b>Protection</b>	IP 65 (climatic class)	
<b>Analog output</b>	(0)4 up to 20 mA	0 - 10 g/l CO <sub>2</sub> /parameterizable
<b>Digital outputs</b>	<b>optocoupler, passive:</b>	30 V / 80 mA max.
	2 x monitoring of limit values	
<b>Alarm output</b>	1 x end of the measuring phase	
	relay (change-over contact) 250V AC, 200 mA	
	internal fault and general infringement of the limit values	
<b>Digital inputs</b>	<b>optocoupler:</b>	10 - 30 V
	1 x CIP	
	1 x stop function	
	<b>Option:</b>	4 x product selection, external
<b>Interface</b>	<b>Standard:</b>	RS 485 / CS3-Bus
	<b>Option:</b>	current loop TTY

**Dimensions:**

**ON-LINE**



**Dimensions:**

**IN-LINE**

