

CO₂ MEASURING UNIT CO.20



The CO₂ measuring unit serves the Inline / Online CO₂ measurement in the brewery and beverage industry.

The measuring principle is based on the ACM continuous partial pressure method; membrane system. The space after a CO₂-permeable silicone membrane, fixed in the front of the measuring chamber, is filled by diffusion CO₂ until the chamber pressure reaches the partial pressure of the dissolved CO₂ in the liquid. At de- or increasing CO₂ concentration in the liquid, the measuring chamber pressure corresponds. By using up to date microprocessor electronics, the current CO₂ value is continuously calculated from the determined pressure and temperature values and shown as the actual value in g/l or Vol.

The CO.20 is highly accurate, robust and almost maintenance-free.

There are no moving parts, and a continuous supply of carrier gas is not necessary. The membrane can easily be exchanged; a change once per year is recommended.

ACM CO.20 is fully CIP-able. Longer production stops do not have any impact on the membrane quality. Also there is no need for a gas carrier.

What is new is the integrated user interface with 5,7" graphic display. Easy handling by self-explanatory symbol keys. Unlimited number of products, free choice of limits and alarms incl. hysteresis and the recorder display support your daily work.

Technical Data

Dimensions:	Width 230 x height 300 x depth 170 mm Sensing head: diameter 85 x length 150 mm
Weight:	Approx. 4,6 kg (without sensing head), sensing head approx. 1,2 kg
Mounting:	Inline Varivent or bypass
Power supply:	24 V DC +/- 20%, 800 mA
Compressed air supply:	5 to 7 bar, standard compressed air, dry oil-free; Plug connection, diameter 8 mm
Max. nominal pressure:	10 bar
Cleaning:	Common CIP, up to 130 °C
Measuring range:	0 to 10 Vol. resp. 0 to 20 g/l
Accuracy:	+/- 0,03 Vol. resp. +/- 0,05 g/l
Response time t₉₀:	< 5 sec
Data display:	5,7" graphic display, 320 x 240 px, width 115 x height 85 mm
Output signal:	RS485, (0)4-20 mA, Profibus DP and DeviceNet

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