

# HAFFMANS AuCoMet-i IN-LINE CO<sub>2</sub> METER

PRODUCT LEAFLET

## GENERAL PRODUCT INFORMATION

In the beer and beverage industries, the content of dissolved carbon dioxide (CO<sub>2</sub>) and dissolved oxygen (O<sub>2</sub>) are of utmost importance to the quality, taste and flavor stability of beer and carbonated beverages. Particularly, O<sub>2</sub> is becoming an increasingly important parameter, as excess O<sub>2</sub> can compromise the flavor stability and lead to significantly reduced product shelf life.

Because of this, breweries and soft drink manufacturers continuously seek to control and measure the concentrations of CO<sub>2</sub> and O<sub>2</sub> during production.

The In-line CO<sub>2</sub> Meter, type AuCoMet-i, sets standards in terms of quality, handling and ease of maintenance. It enables a fast and accurate determination of the CO<sub>2</sub> content in beer and beverages based on the internationally standardized method of Henry's Law. In addition, the AuCoMet-i can easily be extended with an O<sub>2</sub> sensor. Pentair Haffmans' optical O<sub>2</sub> measurement technology provides better response times than traditional O<sub>2</sub> measurement instruments, and does not require frequent calibration. With the AuCoMet-i both, CO<sub>2</sub> and O<sub>2</sub> measurements, can be done independently.

The AuCoMet-i is supplied with a separate control unit that can be field or panel mounted. This offers the operator maximum flexibility to position the control unit at a location that allows optimal access to both the operating panel and the display. One CO<sub>2</sub> sensor and one O<sub>2</sub> sensor can be connected to each control unit.

The CO<sub>2</sub> sensor and O<sub>2</sub> sensor are hygienically designed according to the EHEDG guidelines. The AuCoMet-i is easily mounted in an in-line housing with Varivent® connections.

## BENEFITS

- Cost saving
  - efficient production process operation
  - the need for minimal preventive maintenance reduces OPEX by more than 50%
  - robust and modular design

## APPLICATIONS

- In-line, at critical locations in the production line where the determination of the dissolved CO<sub>2</sub> and O<sub>2</sub> content (optional) is required and adjustments can be made, typically after filtration, carbonation and/or blending and before filling.
- In combination with a Pentair Haffmans' CO<sub>2</sub> dosing unit, type CCR, to determine the CO<sub>2</sub> quantity and immediately adjust the CO<sub>2</sub> dosing rate if necessary.



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## TECHNICAL DATA

### CONTROL UNIT

**Power supply**

85-264 V / 50-60 Hz (optional 24 VDC)

**Dimensions**

235 x 205 x 165 mm/9.25 x 8.07 x 6.50 in  
(LxWxH)

**Mounting**

Wall mounting

### CO<sub>2</sub> CONTENT

**Measuring range**

2.0-10.0 g/l

**Accuracy**

± 0.10 g/l

**Measuring units**

g/l, % b.w., Vol, kPa

**Measuring interval**

approx. 30 sec.

### O<sub>2</sub> CONTENT (OPTIONAL)

**Measuring range**

0.0-2,000 ppb

**Accuracy**

± 1 ppb + 2 % of m.v. (at 20 °C)

**Measuring units**

ppb, µg/l, ppm, mg/l, % a.s.

**Measuring interval**

30 sec. (adjustable from 2 - 999 sec.)

**Temperature**

-5.0 - 40.0 °C, acc. ± 0.1 °C

**Pressure**

0.0 - 10.0 bar, acc. ± 0.01 bar

**Memory capacity**

Up to 500 measurements

**Process temperature**

Max. 110 °C

**Process pressure**

Max. 10 bar(g)/145 psi

**Power supply**

85-264 VAC wide range (optional 24 VDC)

**Dimensions CO<sub>2</sub> analyzer**

200 x 135 x 280 mm (LxWxH)

**Dimensions O<sub>2</sub> sensor**

84 x 175 mm

**Connection**

Varivent®

**Protection class**

IP-67

## SCOPE OF SUPPLY

- Control unit with wall mounting bracket
- CO<sub>2</sub> sensor
- Sensor communication cable
- Set of I/O cables
- Mains cable
- Software set
- Service set
- Pressure calibration set
- Instruction manual

## OPTIONS

- O<sub>2</sub> sensor, type Vari/LHO, with O<sub>2</sub> sensor communication cable and calibration beaker assembly
- Profibus DP
- Control unit pipe/sensor mounting set (DN 40-DN 125)
- Control unit panel mounting set
- Extended I/O (for feedback signals)
- Certificate of measurement
- In-line housing with two Varivent® connections, inspection glasses and clamps (pipe dimensions to be specified at time of enquiry)
- O<sub>2</sub> calibration set



O<sub>2</sub> sensor (optional)



### HAFFMANS BV

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