

# Carbo-Zirox O<sub>2</sub> Monitor



## Carbo-Zirox O<sub>2</sub> Monitor

### General product information

In the beer and beverage industry, the quality of carbon dioxide (CO<sub>2</sub>) is decisive to the quality and the taste. A low oxygen content is crucial to avoid oxygen pick up in beverages.

The CO<sub>2</sub> collected from fermentation is liquified in order to reduce the space needed for storage and to purify the CO<sub>2</sub> from non-condensable gasses (O<sub>2</sub> and N<sub>2</sub>).

The stationary Carbo-Zirox O<sub>2</sub> Monitor, type SGM-6, consists of an O<sub>2</sub> controller and O<sub>2</sub> sensor. It is especially designed to continuously measure O<sub>2</sub> concentrations in CO<sub>2</sub> and N<sub>2</sub> gas.

The instrument is connected to a CO<sub>2</sub> or N<sub>2</sub> line and the O<sub>2</sub> content is measured and displayed. The measurement result can be exported to a PC or is available as analogue output signal.

The device is also available in a portable execution, type SGM-7.



**SGM-6**

# Carbo-Zirox O<sub>2</sub> Monitor



## Benefits

- Perfect product control
- Maintenance free

## Applications

- Quality Control
  - of your gas distribution systems
  - of commercial gas
  - of CO<sub>2</sub>, recovered and purified from fermentation
  - in front of the carbonator, to monitor the gas quantity dosed
- Optimizing CO<sub>2</sub> Recovery Plants
  - behind the activated carbon filter/dryer
  - in the purge from the CO<sub>2</sub> liquefier, to control the blow-off quantity automatically, to prevent CO<sub>2</sub> losses as well as high concentrations of O<sub>2</sub> from dissolving CO<sub>2</sub>
  - behind the CO<sub>2</sub> evaporator, to monitor O<sub>2</sub> in the CO<sub>2</sub> distribution system

## Technical Data

### Measuring range

O <sub>2</sub> value:	1 - 20.600 ppm O <sub>2</sub>
Gas Inlet temperature:	0 - 80 °C
Gas Inlet pressure:	0 - 1 barg
CO <sub>2</sub> Flow:	5 - 10 l/h

### Measuring units

O <sub>2</sub> value:	ppm Vol. %
Temperature:	°C

### Accuracy O<sub>2</sub> value

Range 1 - 10 ppm:	< 5 %
Range 10 - 26.000 ppm:	< 3 %

Interface:	RS-232
Analogue output:	0/4 - 20 mA, adjustable
Alarm output:	3 potential free contacts
Voltage:	100 - 230 V / 50 - 60 Hz
Weight:	O <sub>2</sub> Controller 5 kg / O <sub>2</sub> Sensor 3.5 kg

## Scope of Supply

- Carbo Zirox O<sub>2</sub>, type SGM-6
  - O<sub>2</sub> controller
  - O<sub>2</sub> sensor
- Set of cables, 10m
- Set of reducing valves with connectors
- Sample stop cock
- Welding socket 3/8" x 12 mm
- Stainless steel sample tube
- Instruction Manual

## Options

- Certificate of Measurement
- Activated Carbon Filter
- Dryer

**Haffmans BV reserves the right to make changes in the technical specifications at any time.**



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