

## THE NEW INNOVATIVE O<sub>2</sub> optical analyzer

The oxygen analyzer UG01 is a new innovative in line optical sensor able to measure accurately O<sub>2</sub> in each one of the different applications both in the beverage and beer industry: the installation can be easily made by means of a standard Varivent fitting.

The measurement is very fast and it helps the plant operators to control the process in real time giving the appropriate information to be used to react with corrections when needed.

The equipment is optical based on fluorescence quenching where the technology has been specifically developed by Maselli in order to improve the robustness against the challenging conditions of the daily operations.

The new design reduces to a minimum level the need of periodic calibration: the maintenance is as well easy due to the modular construction of the critical elements.

In the Maselli product range, the UG01 oxygen analyzer can be installed in combination with the UC09 carbonation analyzer where the 2 sensors are handled by a single MP01 control panel.

# UG01

## OPTICAL OXYGEN ANALYZER

O<sub>2</sub> FOR THE BEVERAGE AND BEER INDUSTRY

## CO<sub>2</sub>/O<sub>2</sub> combined measurement

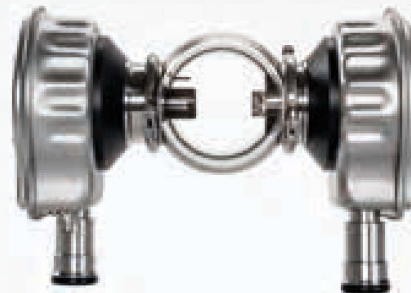
The oxygen analyzer **UG01** may be delivered in combination with the ATR-based infrared carbonation analyzer **UC09**: the 2 sensors may be installed in 1 single standard Varivent fitting.

Being a modular construction, it is possible to start with 1 element adding the second one at a later stage.

The 2 analyzers are controlled by the new Maselli MP06 touch screen field panel: this web server based equipment with easy remote connection capability, allows to handle trends and alarms in order to control the process.



**MP06**



**UG01**

**UC09**

## OPERATING SPECIFICATION

### Oxygen Measurement

#### Low Range

Measurement range:	0 ...2000 ppb (dissolved O <sub>2</sub> in liquids) 0...4% O <sub>2</sub> (gas phase O <sub>2</sub> )
Reproducibility:	0.0025% O <sub>2</sub> or 3% of the reading
Detectability:	1 ppb (dissolved O <sub>2</sub> in liquids) or 0.0025% O <sub>2</sub> (gas phase O <sub>2</sub> )
Measurement scales:	ppb (dissolved O <sub>2</sub> in liquids), % O <sub>2</sub> (gas phase O <sub>2</sub> )

#### High Range

Measurement range:	0...22.5 ppm (dissolved O <sub>2</sub> in liquids) 0...40% O <sub>2</sub> (gas phase O <sub>2</sub> )
Reproducibility:	0.1% O <sub>2</sub> or 3% of the reading
Detectability:	0.015 ppm (dissolved O <sub>2</sub> in liquids) or 0.035% O <sub>2</sub> (gas phase O <sub>2</sub> )
Measurement scales:	ppm (dissolved O <sub>2</sub> in liquids), % O <sub>2</sub>

## TECHNICAL FEATURES

Product Temperature:	-5...+40 °C (23...122 °F)
Line pressure:	max 10 bar (145 psi) at 20 °C (68 °F)
Degree of protection:	IP67 from EN60529
Power supply:	DC 24V ±10%, 10W
Digital interface:	RS485 for connection to M8,MP06 receivers
Line connection:	Tuchenhagen Varivent N and all Maselli available mounting fittings

Please refer to the technical datasheet for further data.

## More products for the Beer and Beverage Industry

### IB08 Beverage Analyzer



In Line - Bx / Diet / CO<sub>2</sub>

### BA06 Beer Analyzer



In line - Alcohol, Plato, Extract, CO<sub>2</sub>



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PROCESS ANALYZERS

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