



Orbisphere M1100 Oxygen Sensors

Monitors oxygen in the beverage production process

The Orbisphere M1100 optical sensor, together with the Orbisphere 410 one channel and the Orbisphere 510 multi-channel controller, offers a new way of monitoring oxygen in the beverage production process.

Minimal Drift and Annual Calibration

The M1100 sensor provides immediate oxygen readings with a measurement frequency of two seconds. The instrument carries consistent readings with no drift for 12 months without calibration (when utilising standard weekly CIP processes), surpassing other optical sensors that display significant drift after only a few months in similar conditions.

Minimal Maintenance Optical Technology

The M1100 pioneered the use of luminescent technology in beverage applications, and as a result, the sensor doesn't require the replacement of membranes or any electrolytes. Additionally, the sensor's accuracy is unaffected by process changes or pressure shocks—further reducing maintenance. Annual maintenance is limited to just a few minutes for a zero point calibration. Chemicals are not required for this process, making the task easier and safer without reducing measurement precision.

Low Level Oxygen Measurement with Accurate ppb

The M1100-L sensor has a lower detection level of 0.6 ppb. This highly accurate instrument's readings are essential to control low oxygen levels in beverage production. As an example, it is critical to control low level oxygen in the post fermentation applications of the brewery to ensure high quality of the final product.

High Level Oxygen Measurement with Accurate ppm

The M1100-H sensor has a range of 0-40 ppm, and is ideal for use in wort applications, for example. Even in this harsh wort environment, the instrument maintains very good accuracy and minimal drift. Only a yearly maintenance and calibration will be required in most cases.

Part Number	Parameter	Measuring range	Accuracy	Calibration	GBP Price
M1100-S00	Oxygen	0 - 2000 ppb DO (dissolved oxygen)	± 0.8 ppb or 2 % whichever is greater	Single point zero calibration with standard 99.999% nitrogen (quality 50) or equivalent oxygen free gas	Contact Us
M1100-S10	Oxygen	0 - 2000 ppb DO (dissolved oxygen)	± 0.8 ppb or 2 % whichever is greater	Single point zero calibration	Contact Us

Part Number	Parameter	Measuring range	Accuracy	Calibration	GBP Price
M1100-S104	Oxygen	0 - 2000 ppb DO (dissolved oxygen)	± 0.8 ppb or 2 % , whichever is the greater	Sensor: Single point zero calibration No warm-up time necessary Sample: Standard 99.999% N2 (quality 50) or equivalent oxygen free gas	Contact Us
M1100-S00H	Oxygen	0 - 40 ppm DO (dissolved oxygen)	± 0.02 ppm or 3 % whichever is greater	Two points at cap replacement (zero and air), one during use (air)	Contact Us