



Be Right™



Sensor LDO, 0 - 2 ppm, Hastelloy

de producto: M1100-H00
USD Precio: Contacto Hach

Monitorización del oxígeno en cerveza y agua desgasificada

Solución en línea de nivel alto y bajo de Hach que ofrece mediciones de oxígeno avanzadas sin mantenimiento; en todas las partes del proceso de elaboración de la cerveza.

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.

Especificaciones

Alcance del suministro: Sensor only.
Controller, sensor cable, flow-chamber or process connection must be ordered separately.

Aplicación: Empresa del sector de las bebidas

Calibración:	Calibración cero de un punto con estándar 99,999% de nitrógeno (calidad 50) o gas sin oxígeno equivalente
Caudal de muestra:	50 - 300 mL/min
Certificaciones:	2004/108/EC - EN 61326-1
Condiciones de operación:	0 - 95 % non-condensing relative humidity
Conexión:	NA
Exactitud:	± 0,8 ppb o 2 %, lo que sea mayor
Grado de protección IP de la carcasa:	Sensor resistant to all common CIP methods
Límite de detección:	0,6 ppb
Material:	Acero inoxidable 316 L (1.4435), silicona
Materiales en contacto con la muestra:	Acero inoxidable 316 L (1.4435), silicona
Pantalla:	0.1 ppb
Parámetro:	Oxygen
Peso:	M1100 12 mm: 0,6 kg M1100 28 mm: 0,74 kg
Presión de muestra:	1 - 20
Rango de medición:	0 - 2000 ppb de O ₂ disuelto
Rango de temperatura:	Exactitud de -5 - 50 °C (23 - 122 °F) Resistencia a temperatura de -5 - 100 °C (23 - 212 °F)
Region:	EU
Repetibilidad:	± 0,4 ppb o 1 %, lo que sea mayor
Reproducibilidad :	± 0,8 ppb o 2 %, lo que sea mayor
Temperatura ambiente:	De -5 a 100 °C (de 23 a 212 °F)
Tiempo de respuesta:	(90 %)< 10 s (fase gaseosa)

Contenido de la caja

Sensor únicamente.#BR#El controlador, los cables, la celda de caudal y la conexión de procesos deben pedirse por separado.