



Be Right™



M1100 Luminescens oxygensensor in-line 0-2000 ppb med 12 mm PG-13,5 fitting

Produkt nr.: M1100-S10

DKK Pris: Kontakt os
Afsendes indenfor 2 uger

M1100 LDO-sensor (Luminescent Dissolved Oxygen) giver dig mulighed for at overvåge oxygen i øl.

Sensor for the determination of dissolved oxygen (DO) in beer and de-aerated water.

This sensor has an unbeatable precision of 0.8ppb and a limit of detection of 0.6ppb. Such accurate measurement readings are essential to control low oxygen levels in beer.

The absence of membrane and electrolyte means that the sensor accuracy is unaffected by process changes or pressure shocks. Maintenance and operating costs are also reduced. The sensor has been designed to ensure mechanical robustness and resistance to CIP processes to extend operational lifetime and optimise its total cost of ownership.

The quick response time comes from a two second measurement frequency. Capable of measuring accurately at this frequency over a 12 month period.

Minimal drift og årlig kalibrering

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.

Meget præcis ppb-oxygenmåling

The M1100 pioneered the use of luminescent technology in brewing 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.

Robust optisk teknologi uden membran og elektrolyt

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 beer production, to decrease unnecessary line stoppages, and to increase production uptime.

Omkostningsbesparende opgraderingspakke

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.

Specifikationer

Applikation:	Beverage
Certificeringer:	2004/108/EC - EN 61326-1
Display opløsning:	0.1 ppb
Driftsbetingelser:	0 - 95 % non-condensing relative humidity
Flowhastighed:	50 - 300 mL/min
IP klasse, kapsling:	Sensor resistant to all common CIP methods
Kalibrering:	Et punkts nulkalibrering

Laveste detektionsgrænse:	0.6 ppb
Måleområde:	0 - 2000 ppb DO (dissolved oxygen)
Materiale:	316 L Stainless Steel (1.4435), Silicone
Nøjagtighed:	± 0,8 ppb eller 2 % den største værdi vil være den gældende
Omfang af leverance:	Sensor only. Controller, sensor cable, flow-chamber or process connection must be ordered separately.
Omgivelsestemperatur:	-5 - 100 °C (23 - 212 °F)
Parameter:	Oxygen
Repeterbarhed:	± 0.4 ppb eller 1 % den største værdi vil være den gældende
Reproducerbarhed:	± 0,8 ppb eller 2 % den største værdi vil være den gældende
Responstid:	(90%)< 10 s (gas phase) (90%)< 30 s (beer process)
Strømforsyning:	Universal 85-264 VAC @, 25 VA, 10-36 VDC, 25 W,
Temperaturområde:	Præcis fra -5 til 50 °C (23 til 122 °F) Modstandsdygtig over for temperaturer fra -5 til 100 °C (23 til 212 °F)
Tryk:	1 - 20 bar absolute (14.5 til 290 psia)
Vægt:	M1100 12mm : 0,6 kg M1100 28mm : 0,74 kg
Væskeberørte materialer:	316 L Stainless Steel (1.4435), Silicone

Hvad er der i boksen

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

Påkrævet tilbehør

- ORBISPHERE Sensor insertion and retraction valve for use with Tuch adapter. (Item 32003)
- Sensorkabel (5 m) til at forbinde sensor af M/K typen med Orbisphere 410/51x instrumenter (Item 32510.05)
- Controller for LDO sensor, panel mount, 90-240V AC, RS + PB (Item 410M/P1C10000)
- Controller for LDO sensor, wall mount, 90-240V AC, RS + PB (Item 410M/W1C10000)
- Controller for LDO sensor, wall mount, 10-30V DC, RS (Item 410M/W2C00000)