## VisiFerm DO [amily



VisiFerm DO Arc 120
HeatNo::237900
HAMILTON

The VisiFerm DO is the first optical oxygen sensor with integrated opto-electronics, having the full functionality of a measuring device with self-diagnostics. It is steam sterilizable, autoclavable and CIP compatible. The VisiFerm requires less maintenance than a classical oxygen sensor as it does not have a mechanically sensitive membrane or a corrosive electrolyte.

Did you know... that Hamilton invented the first optical DO sensor in 12 mm format?

## Benefits

- ► No fragile membrane with a solid sensor cap
- ► No polarization time required
- ► Instantly stable values, low drift, quick response
- Electrolyte-free, so no leakage
- Convenient precalibration in the laboratory, because data is stored in the sensor head

## Typical applications

- Ethanologenic fermentation
- ► Biotechnical fermentation
- Brewery fermentation, filtration, filling
- Proactive corrosion control in HVAC systems

## **Ordering Information**

**VisiFerm DO Family Structure** 243666 Code Interface Arc ECS 2 Code a-length (mm) 1 120 2 160 225 3 325 4 5 425 Code ODO Cap HO 2 H2 ← Order Code 243666 -

DO

**ODO Cap H0:** For general application in biotechnology, water treatment and monitoring as well as in breweries, wineries and soft drink processing.

**ODO Cap H2:** The ODO Cap H2 is designed for fermentation processes where sterilization in place (SIP) is performed in media containing higher amounts of lipophilic compounds. It comes with a hygienic design.







Measuring range	4 ppb to 25 ppm (DO)
Measurement Principle	Oxygen dependent Iuminescence quenching
Response time t98%	< 30 s at 25 °C, from air to nitrogen
Process temperature	-10 to 140 °C, the sensor provides no DO reading above 85 °C
Operating voltage	7 to 30 VDC max. 1 W
Pressure range (relative to ambient)	-1 to 12 bar
Hygienic aspects	Autoclavable, CIP, SIP
Surface Quality	R <sub>a</sub> < 0.4 μm (N5)
Material	Stainless steel 1.4435
O-ring	EPDM

For more specifications see www.hamiltoncompany.com

Accessories

ODO Cap H0 Kit Ref 243515
 ODO Cap H2 Kit Ref 243505

Cables see page D 112 Arc Accessories see page D 116 Housings see page D 127