



DETM DYNAMIC
Process Equipment

Dissolved Oxygen Optical Sensor
FermSense DO-O

Dissolved Oxygen Sensor – Optical, Sterilizable

FermSense DO-O



The Optical sensor combines an optical sensor type PSt7 and electro-optical module in one probe. The sensor has a maximum measurement range of 0 - 100 % O₂, and a detection limit of 0.03 % O₂ / 20 ppb. The wide range sensor is ideally suited for application in the biotech sector. They are directly connected to the control unit and have a standard PG 13.5 stainless steel thread for easy integration at the measurement site. As a digital interface these probes use RS485 Modbus RTU. The trace range sensor has a measurement range of 0 to 5% or 0 to 2 mg/l with 0.5 ppb resolution.

Applications

- Fermenters
- Bioreactor

Features

- Maximum measurement range of 0 - 100 % O₂, detection limit 0.03 % O₂, Trace range: 0 to 5% (0.5 ppb)
- Ideal for O₂ monitoring in the biotech sector
- Stands SIP (recommended: + 121 °C, 30 min) & CIP (2 % NaOH, + 80 °C)
- Simple integration due to standard PG 13.5 thread

Specification:

| FermSense DO-O : Optical Dissolved Oxygen Sensor | | | |
|--|---------------|---|----------------------------|
| Application | | Bio-pharmaceutical, Life Science & Fermentation | |
| Type | | Wide Range | Trace Range |
| Optical sensor and electro-optical module in one probe | | | |
| Output | | RS-485 MODBUS RTU | |
| Cable Connector | | VP8 | |
| O ₂ Range | Concentration | 0.0 to 22.5 mg/l (45.0 mg/l Max) | 0 to 2 mg/l (4.5 mg/l Max) |
| | Saturation | 0 to 50% (100% Max) | 0 to 5% (10% Max) |
| | Minimum | 0.015 mg/l (20 ppb) | 0.5 ppb |
| Steam Sterilizable | | Recommended: + 121 °C, 30 min | |
| Temperature Sensor | | NTC | |
| Process Range | Temperature | 0 to 90 °C Max (0 to 50 °C Optimal) | |
| | Pressure | 12 Bar | |
| Response Time | | < 30 s | |
| Dimensions | Surface | Ra < 0.4 µm (N5) | |
| | Diameter | 12 mm | |
| | Length | 120, 225mm | |
| | Connector | PG13.5 | |

Also check out our range of **Retractable Housings** for Liquid Analytics...



SmartDip 405M

SmartDip 405M is a retractable electrode housing with pneumatically operated drive Unit. This metal body model can be implemented in harsh chemical applications through flan...



SmartDip 220M

SmartDip 220M is a compact retractable electrode housing with manual drive Unit. This metal body model can be implemented in different chemical applications including ferment...



SmartDip 405P

SmartDip 405P is a retractable electrode housing with pneumatically operated drive Unit. This plastic body model can be implemented in harsh chemical applications through flan...



SmartDip 250M

SmartDip 250M is a manually operated Retractable electrode housing with long immersion lengths and ball valve for isolation. It can fit 120mm long Sensor.



SmartDip 420M

SmartDip 420M is a compact retractable electrode housing with pneumatically operated drive Unit. This metal body model can be implemented in different chemical applicatio...



SmartDip 240M

SmartDip 240M is a compact retractable electrode housing. This version can fit 120mm long sensor. It comes with 1" NPT, Triclover connection.



SmartDip 450M

SmartDip 450M is a pneumatically operated retractable electrode housing with long immersion length and isolation ball valve. This unique model can fit 120mm long sensor.

DC DYNAMIC
Process Equipment

Contact: +91-7405728841

Email: info@dynamic-p-e.com

For more information visit: <https://www.dynamic-p-e.com/>



Subject to technical changes