

OxyFerm FDA 225

Specification Sheet (Part/REF # 237452)

HAMILTON[®]



OxyFerm sensors provide a traditional nanoamp (nA) current output with multiple options for electrical connectors and mounting connections.

Product Specifications

| | |
|--------------------------------------|--|
| Sensor Family | OxyFerm FDA |
| Parameter | DO (Electrochemical) |
| Sensor Output | Traditional: nA |
| a-length | 215 mm |
| Electrical Connector | T82/D4 |
| Measurement Principle | Electrochemical reduction of oxygen |
| Measuring Range | 10 ppb to 40 ppm (DO) or 0.2 to 1000 mbar (pO ₂) |
| Drift at Room Temperature | < 1 % per week |
| Membrane Cap | Optiflow FDA |
| Electrolyte | Oxylyte |
| Oxygen Consumption | Ca. 20 ng/h in air at 25 °C |
| Temperature Sensor | NTC 22 kOhm |
| Current in Air at 25 °C | 40 - 80 nA |
| Diameter | 12 mm |
| Process Connection | PG13,5 |
| Wetted Parts | Stainless Steel 1.4435 EPDM (Ethylene propylene elastomer) Silicone - FDA 21 CFR 177.2600 VMQ (Silicone elastomer) See compliance details in Material Specification document |
| Surface Quality of Steel | Ra < 0.4 µm (N5) |
| Electrode system | Silver platinum combination |
| Polarization Voltage and Time | -670 ± 50 mV, ≥ 2 hours |
| Serial Number | Yes |
| Response Time t90% | < 60 s at 25 °C |
| Certificate | Material and Performance Test Certificate |
| ATEX Approval | II 1/2 G Ex ia IIC T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/Db |
| IECEX Approval | II 1/2 G Ex ia IIC T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/Db |
| Autoclavable | Yes |
| CIP | Yes |
| Steam Sterilizable | Yes |
| Operating Temperature Range | 0 to 130 °C |

Pressure Range bar g 0 to 4 bar

Max. CO₂ Partial Pressure 0.01 bar

Required Flow \geq 0.03 m/s

Specifications are subject to change without notice

Spec. Version B

<https://www.hamiltoncompany.com/process-analytics/sensors/237452>



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