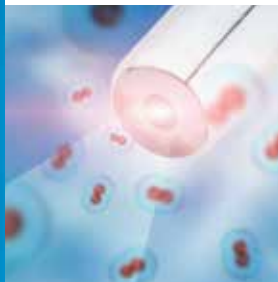


Faster Response, Lower Maintenance Pure Water Dissolved Oxygen Monitoring



Instant Availability, Accurate Results

Through innovative fluorescence quenching technology, the Pure Water Optical DO Sensor delivers highly accurate O₂ measurement with enhanced signal stability and fast response time. Increase productivity by eliminating measurement delays.



High Performance with Faster Response

The probe's OptoCap™ sensing element supports accurate oxygen determination without time-consuming electrolyte handling. Response time is in the order of four to five times faster than that of polarographic sensors.



Easy, Infrequent Maintenance

With no more than annual replacement of the OptoCap, the Pure Water Optical DO Sensor eliminates the need for polarization, dramatically reducing downtime. In addition, the one-piece replacement design provides easy maintenance without electrolyte handling.



Advanced Predictive Insights

Embedded ISM technology allows Plug and Measure capabilities and simplifies maintenance and calibration. Using advanced sensor diagnostics, Pure Water Optical DO Sensors maximize uptime by predicting their maintenance needs so action can be taken before measurements are affected.



Pure Water Dissolved Oxygen Sensors Exceed Your Expectations

The Pure Water Optical Dissolved Oxygen Sensor with Intelligent Sensor Management (ISM®) technology provides high accuracy, fast response and increased stability in demanding low ppb-level ultrapure water applications.

Modernize and transform your oxygen monitoring with the combination of fluorescence quenching and OptoCap sensing element technology. Get outstanding measurement performance with low detection limit, minimum drift, and short response time while increasing system availability and reducing downtime.

Discover the Pure Water Dissolved Oxygen Sensor:

► www.mt.com/opticalDO

Pure Water Optical DO Sensor Technical Data

Measurement

Operating range	0 – 5,000 ppb
System accuracy	± 2% of reading or 2 ppb, whichever is greater
Response time	98% of final value in < 20 s
Sampling rate	Adjustable between 1 and 60 seconds
Sample flow rate	50 – 800 mL/min
Temperature compensation	Automatic
Measuring temperature range	10 – 50 °C (50 – 122 °F) for DO measure
Environmental temperature range	0 – 121 °C (32 – 250 °F)
Operating pressure	0.2 – 12 bar (2.9 – 174 psi absolute)
Mechanical pressure resistance	Maximum 12 bar (174 psi absolute)
Sample connections	¼" NPT(F)
Wetted materials	Stainless steel, silicone, EPDM O-ring
Cable length	2 – 50 m (6.6 – 164.0 ft)
Components needed	Optical DO probe, housing and cable

Construction

Measuring principle	Fluorescence quenching
Cable connection	5-pin
Connector design	Straight
Sensor body	316L stainless steel
Membrane material	Silicone
O-ring material	EPDM (FDA-positive listed)
Sensor diameter	12 mm

www.mt.com/thornton

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For more information

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Quality certificate.
Development, production and testing to ISO 9001.



CE Compliant



UL listed
Meets Canadian Standards