



Features

- Dual 4-20mA Output
- Output choice of:
 - % Saturation and mg/l (ppm)
 - Temperature and mg/l (ppm)
- No Electrolyte
- Sample Flow Not Required
- Very Rugged
- Replaceable Membrane
- Saltwater Compensation
- Not affected by CO₂ or H₂S

Description

AquaMetrix has been selling dissolved oxygen analyzers for over three decades. We have sourced the world for a superior sensor that operates using luminescent technology.

We are now pleased to be able to offer the only optical dissolved oxygen sensor that outputs directly an analog (4-20 mA) signal that can be set for percent saturation or concentration (mg/l or ppm) or both. It can connect to the AquaMetrix AM-2300 controller, AM-2252 controller or a PLC.

Optical DO sensors are inherently self-referencing, require no warm-up period, do not require constant flow to maintain a stable reading and are less affected by fouling. Their higher cost has been a drawback for years but the AM-ODO2 brings the cost of optical D.O. measurement down to the level of membrane (i.e. Clark and Galvanic) sensors.

Maintenance is trivial. The sensor membrane lasts for one to two years and is inexpensive to replace. The body is corrosion

resistant and designed to stand up to the harsh environment of wastewater. Calibration is as easy as holding the probe in air.

The AM-ODO2-15 outputs 12 mA at 100% saturation so it covers a range of zero to 200% saturation (approximately 16 ppm). The AM-ODO2H measures concentrations up to 500% saturation (approximately 50 ppm).

The magnetic-control commands eliminate the need of software interface to perform necessary functions. These actions can be performed right in the field without additional tools or software. Several sequences of magnet taps on the probe allow the user to set options such as calibration, salinity compensation and loading the response function of the membrane cap. For instance, tapping the magnet three times starts the process of calibration (but doesn't bring you back to Kansas).

No sensor on the market packs as much into one small package at such an affordable price.

Applications

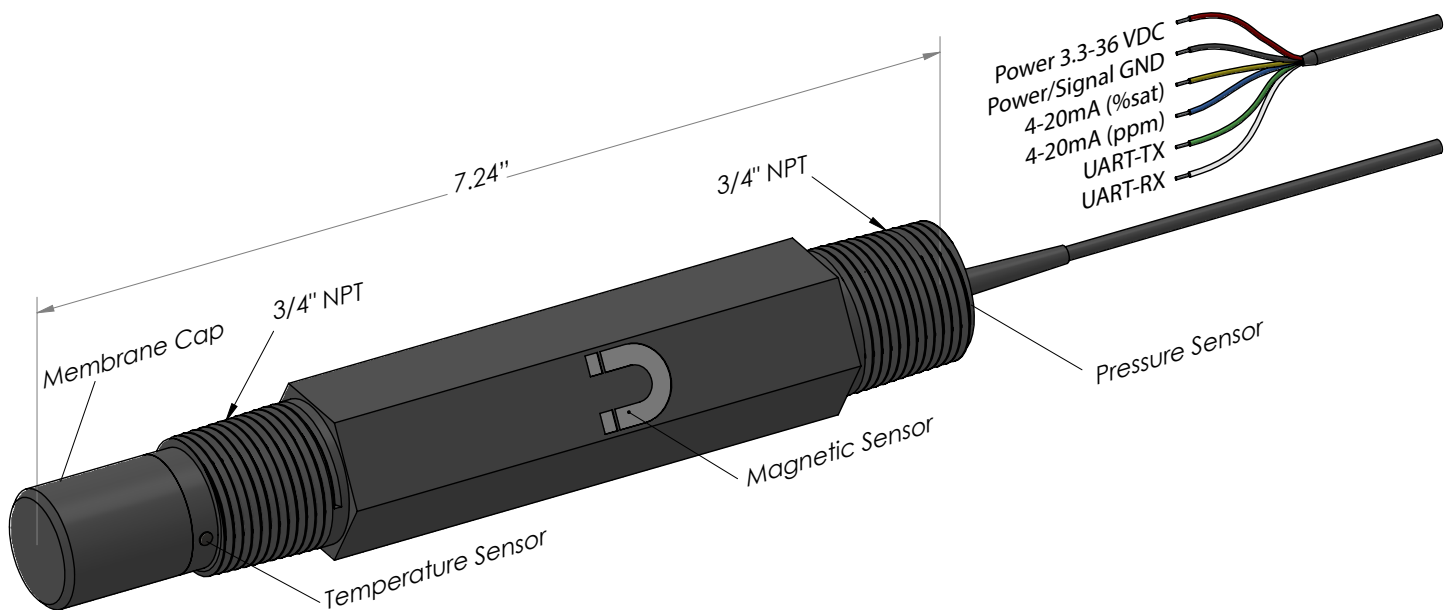
- Wastewater Treatment
- Sewage
- Boilers
- Fish Farms
- Horticulture
- Aquaculture

AM-ODO2 Optical Dissolved Oxygen Sensor

Technical Data

Measuring Range	ODO2: 0 to 20 ppm (0 to 200% saturation) ODO2H: 0 to 50 ppm (0 to 500% saturation)	Salinity	0 or 35 ppt configurable with a magnetic switch
Accuracy at 25 °C	± 0.1 ppm DO ± 1.0 %sat Temperature ± 0.2 °C Pressure ± 0.2 kPa	Wetted Materials	Body: Ryton (PPS), SS Pin Membrane: Acrylic
Resolution	0.1 ppm	Power input	4.5 to 36 VDC
Response Time	T90 < 40 seconds T95 < 45 seconds	Power consumption	0.35W (average)
Operation Temperature	0 to 50 °C	Output	Dual 4-20 mA (current sourcing)
Pressure Compensation	51 to 112 kPa (0.5-1.1 atm)	Mounting	3/4" MNPT on both ends
Maximum Pressure	10 atm	Cable Length	15ft (4.5 m)
Storage Temperature	-20 to 70 °C	Warranty	1 year

Dimensions



Related Products

ANALYZERS

AM-2300	Multi-Input Controller
AM-2252	Dual-Input Controller

ACCESSORIES

AM-ODO2-CAP	Replacement membrane cap
AM-ODO2-CAL	Calibration/Storage cap
AM-ODO-MPR	Metal Protector

Ordering Information

AM-ODO2-015	Optical Dissolved Oxygen Sensor with direct 4-20 mA output for ppm and %sat. 15ft cable
AM-ODO2T-015	Optical Dissolved Oxygen sensor with direct 4-20 mA output for ppm and temperature. 15ft cable
AM-ODO2H-015	Optical Dissolved Oxygen Sensor with direct 4-20 mA output for ppm and %sat. High oxygen concentration 0-50 ppm or 0-500 %sat. 15ft cable