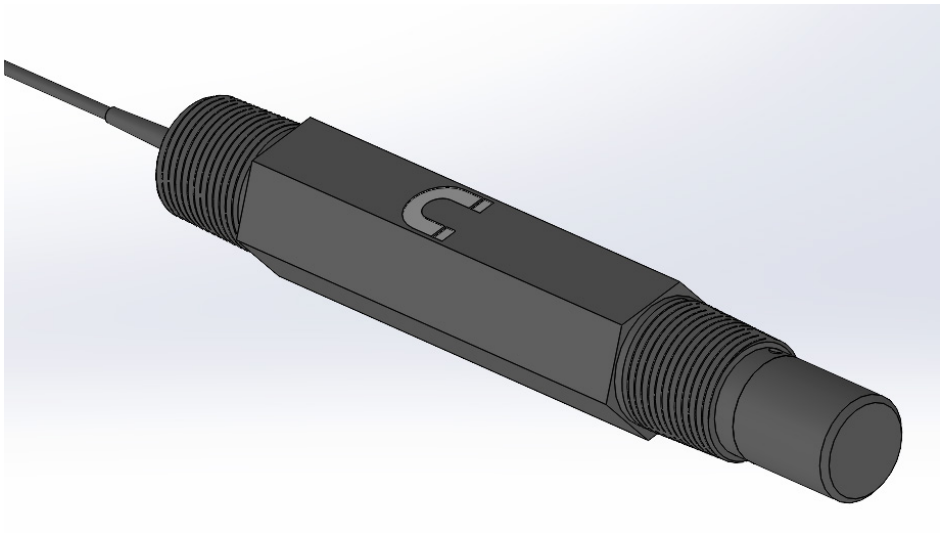
AquaMetrix AM-ODO2-015
Luminescent Dissolved Oxygen Sensor
With Dual 4-20mA Output



Features

- Dual 4-20mA Ouput
- 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 CO_2 or H_2S

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 forpercent-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 (approximately16 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 nessesary 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

100 School Street
Andover, MA 01810
978-749-9949
Toll free 855-pH Probe
(855-747-7623)
www.WaterAnalytics.net

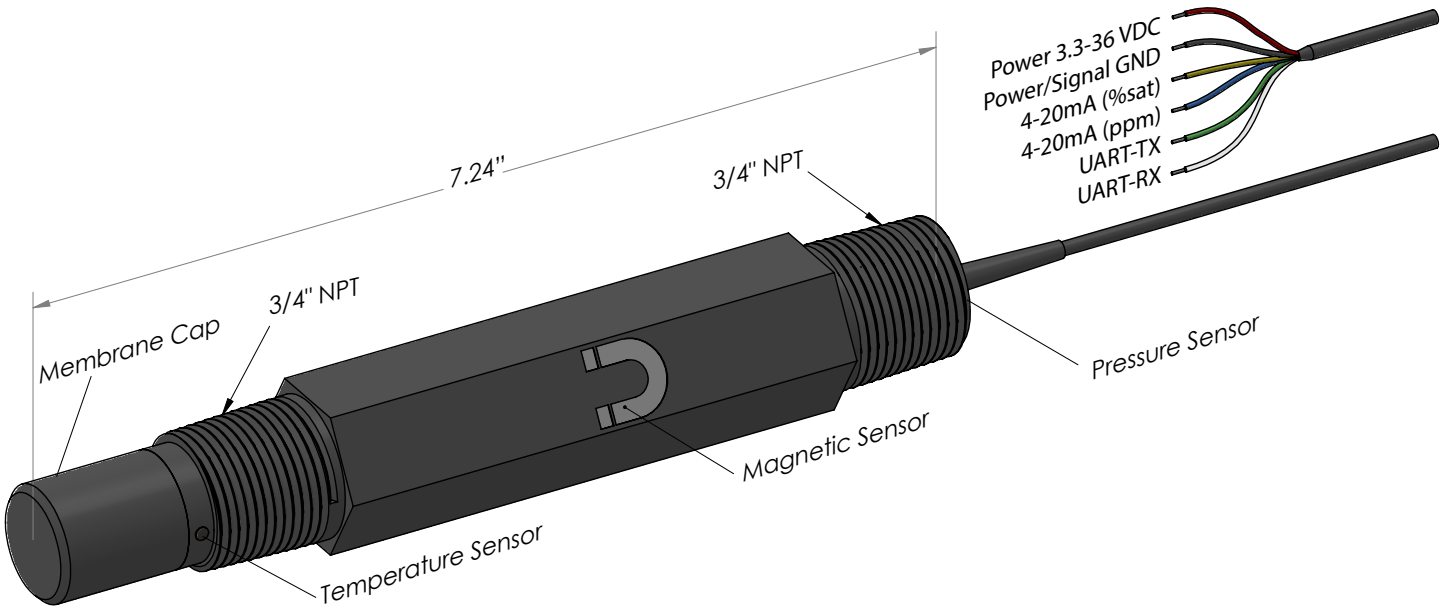
AM-ODO2 Optical Dissolved Oxygen Sensor

Technical Data

Measuring Range	ODO2: 0 to 20 ppm (0 to 200% saturation) ODO2H: 0 to 50 ppm (0 to 500% saturation)
Accuracy at 25 ^{0}C DO Temperature Pressure	± 0.1 ppm ± 1.0 %sat ± 0.2 °C ± 0.2 kPa
Resolution	0.1 ppm
Response Time	T90 < 40 seconds T95 < 45 seconds
Operation Temperature	0 to 50 °C
Pressure Compensation	51 to 112 kPa (0.5-1.1 atm)
Maximum Pressure	10 atm
Storage Temperature	-20 to 70 ^{0}C

Salinity	0 or 35 ppt configurable with a magnetic switch
Wetted Materials	Body: Ryton (PPS), SS Pin Membrane: Acrylic
Power input	3.3 to 36 VDC
Power consumption	0.35W (average)
Output	Dual 4-20 mA (current sourcing)
Mounting	3/4" MNPT on both ends
Cable Length	15ft (4.5 m)
Warranty	1 year

Dimensions



Related Products

ANALYZERS

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

ACCESORIES

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