

AquaMetrix AM-LDO

Luminescent Dissolved Oxygen Sensor

with 4-20 mA or Modbus Output



Features

- No moving parts
- Very rugged
- Instantly stable values
- Calibrated in the factory with calibration data stored in sensor
- Direct output via 4-20 mA or Modbus.
- Only 1 replaceable part - sensor cap.
- Not affected by CO₂ or H₂S
- Economically Priced

Descriptions

Aquametrix has been selling polarographic dissolved oxygen analyzers for over three decades. We are now pleased to be able to offer an optical dissolved oxygen sensor that outputs directly a 4-20 or Modbus signal. Optical DO sensors offer advantages over electrochemical DO sensors in that they are inherently self-referencing, require no warm-up period, do not require flow and are less affected by fouling.

Maintenance is trivial. The sensor cap lasts for an industry leading 3 years or longer and is inexpensive to replace. The body is corrosion resistant and designed to stand up to the harsh environment of wastewater.

No sensor on the market packs as much into one small package. Plug into your PLC or computer and you're ready to measure.

Applications

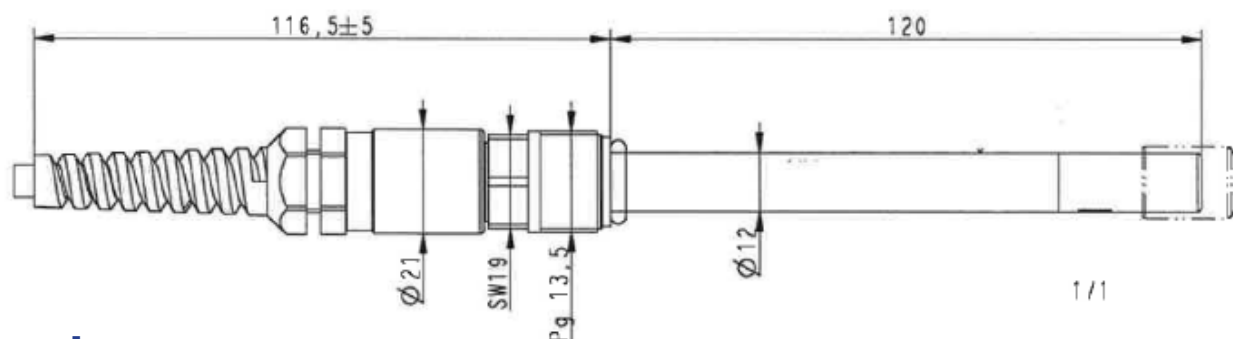
- Wastewater treatment
- Sewage
- Boilers
- Fish farms
- Aquaculture

AM-LDO Luminescent Dissolved Oxygen Sensor

Technical Data

Measuring Range	4 ppb (0.5% air sat.) to 24 ppm (300%)	Wetted Materials	316 SS, EPDM, silicone
Accuracy at 25 °C	1 ± 0.05%-vol; 21 ± 0.2%; 50 ± 0.5%	Storage Temperature	-10 to 50 °C
Detection limit	0.1 % - vol	Operation Temperature	-10 to 60 °C
90% Response Time	<30 sec at 25 °C	Pressure Range	-1 to 12 bar / 174 psi
Drift at Room Temp.	< 0.2%-vol oxygen per week at 30 °C	Wetted materials	CPVC
Power input	7-30 VDC. (0.6 W)	Not resistant to	Chlorine, Chloroform, Toluene, Acetone
Analog Output	4-20 mA scalable. Temperature compensated	Digital Output	Modbus RTU over RS485
Polarization voltage	5-10 min for self heating	Enclosure Type	IP 65
Transmission Rate	4800 to 115,000 bd	Connector	VP 8.0 Variopin connector with PG 13.5
Cross sensitivity	None (inc. CO ₂ , H ₂ S, SO ₂)	Mounting	PG 13.5 - thread, IP68

Dimensions



Dimensions

Function		4-20 mA	PS (7-30 VDC)	Ground	NC	NC	RS485A	485B	Housing
VP Pin	A	B	C	D	E	F	G	H	Shield
Color	Yellow	Green	Red	Blue	Brown	White	Grey	Pink	Yellow/Green

Ordering Information

AM-LDO Sensor w 4-20 mA output	AM-LDO-A
AM-LDO Sensor w Modbus RTU	AM-LDO-D
Replacement Cap	AM-LDO-Cap
USB-RS485 Modbus Converter	AM-LDO-CONV

Related Products

2200D Dissolved Oxygen Controller with P91 Clark style sensor
R655-X Series of 4-20 mA output ORP differential probes