

OPTEX Optical Dissolved Oxygen Sensor -Easy Installation, Simple Operation-



Optical Dissolved Oxygen Sensor
DOS-20

- Robust Design -Inert ABS construction
- Long Term Stability -No Influence by water flow rate

Applications



Aquaculture



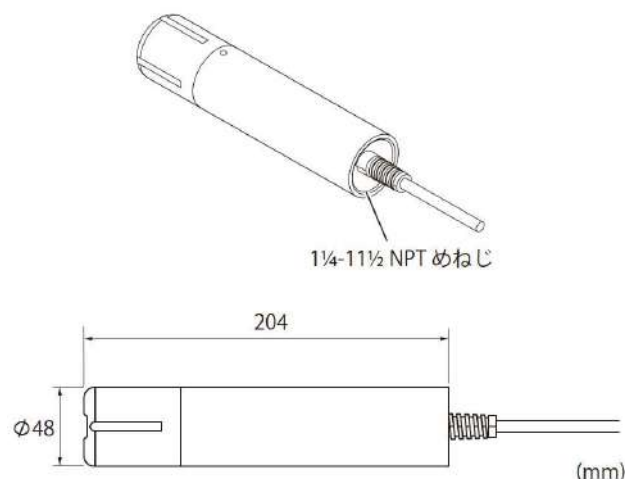
Aquarium

Optical Dissolved Oxygen Sensor DOS-20

Specifications

Model	DOS-20
Measurement parameter	Dissolved Oxygen (mg/L) Temperature (°C) Dissolved Oxygen Saturation Rate (%) Oxygen Partial Pressure (kPa)
Measurement range (Display resolution)	Dissolved Oxygen: 0.00 - 50.00 mg/L (0.01 mg/L) Temperature: 0.0 - 50.0°C (0.1°C) Dissolved Oxygen Saturation Rate: 0.0 - 200.0 (0.1%) Oxygen Partial Pressure: 0.0 - 150.0 kPa (0.1 kPa)
Measurement resolution	± 0.1 mg/L (0 - 8 mg/L) ± 0.2 mg/L (8 - 20 mg/L) ± 10% of reading (20 - 50 mg/L)
Response time	90% response: <45 seconds 95% response: <60 seconds (measurement water temperature : 25°C)
Power input	12 to 36 VDC
Current Consumption	25 mA max. (24 VDC)
Communications	MODBUS (RTU/ASCII)
Operating temperature	0 ~ 50°C (unfrozen)
Major material	ABS
Dimensions	Φ44 x 204 mm
Weight	Approx. 850 g (including cable length of 10 m)
Degree of protection	IP 68, maximum depth of 200 m (underwater type)
Cable length	10 m

Dimensions



Optional items

Universal transmitter : SC-U1(E)

- 2 sensors can be installed.
(max. 4 sensors can be installed using the expansion board)
- 4-20 mA output
- Relay output



Replacement Cap : DOS-CP

Recommended to replace once a year



OPTEX sensors line-up

Turbidity
TC-3000-D



Turbidity
TSC-10-D



Suspended solids
TS-1000-D



Suspended solids
TS-Mx-D



Color and
Turbidity
TDC-Mi



pH
SE-pH-D



ORP
SE-ORP-D



Conductivity
SE-Cond-D



●The appearance and specifications are subject to change for improvement without prior notice. ●The colors might be slightly different from the actual products. ●Safety Precautions: Read the instructions manual carefully and thoroughly before using the appliance, and then use it correctly. ●The products have a limited life. Maintenance and replace it regularly.

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