

Sensor Data Sheet

Oxygen Sensor (Modbus)

DOC 461 4610-E-1.0-DS

Optical Oxygen Sensor for Measurement of Dissolved Oxygen with integrated Temperature Sensor

Article-No. 461 4610

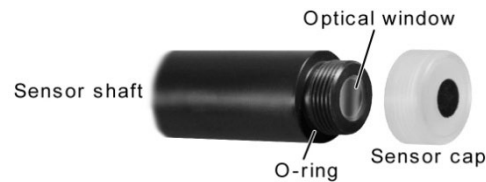


Properties

- singular calibration
- minimal operating costs
- suitable for fresh and salt water (no oxidising parts)
- quick reaction time
- no inflow necessary
- automatic temperature compensation
- auto malfunction diagnosis
- no additional transmitters needed
- best price-performance ratio

Applications

- aquaculture
- lake and river monitoring
- fish farming (fresh and seawater)
- water treatment (control of the O₂ -loading in activated-sludge tank)
- service and industrial water

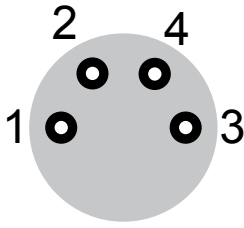


Technical data	
Measurement parameter	Dissolved oxygen in water
Measuring principle	Luminescence
Measuring range	0 - 20 mg/l 0 - 200 % Sat others on request
Measuring accuracy	± 1 % at 25°C
Quantification limit	> 0.1 %
Measuring interval	< 60 s
Ambient pressure	max. 2 bar
Ambient temperature	0 to +50 °C
Body diameter	30 mm
Body material	PVC
Interface	Modbus [RTU]

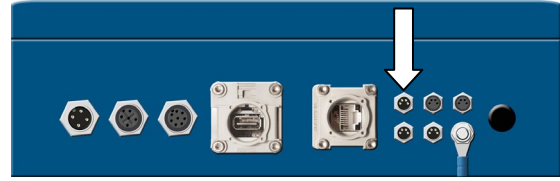
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Connection to the BlueBox

Pin assignment serial interface on the BlueBox T4



RS-485	
panel plug (M8, male)	
1	GND
2	12 VDC
3	RX/TX-
4	RX/TX+

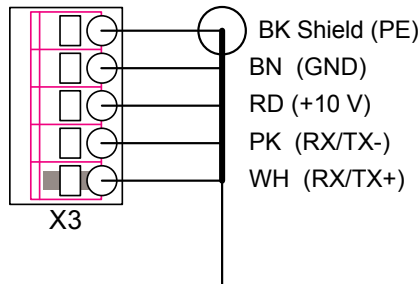


Cable socket, shielded body
 Article No. 338 1017
 Cable colours see below

i Here there is the BlueBox version with a 4-pin M8 panel plug and a 12 VDC power supply. For versions with 3-pin M8 panel plug without 12 VDC power supply, an adapter or similar must be used.

Connection to the BlueConnect Bus Module

Assignment on BlueConnect Bus Module, slot X3



Connection to the BlueSense Transducer

Assignment on BlueSense Transducer, slot X1/X2

