Optical Dissolved Oxygen probe **BAMOX 453**



- Optic-luminescent measurement
- Range: 0 to 20 mg/l
- Easy and reduced maintenance
- Temperature compensated signal
- Body: Or stainless steel; Or titanium

APPLICATIONS

- Urban wastewater treatments (nitrifying / denitrifying process)
- Treatment of industrial effluents
- Monitoring of surface waters, coastal waters, aquariums
- Fish farming and aquaculture (fresh water, sea water)
- Drinkable water

DESCRIPTION

The BAMOX 453, dissolved oxygen sensor, applies the optical luminescence measurement technology approved by ASTM International Method D888-05.

This method confers many advantages:

- High accuracy even for a low concentration of oxygen
- Reduced operating cost: Interchangeable sensor-end
- Optimized maintenance: No signal drift
- Easy commissioning: No necessary calibration
- Suitable for all environments: No consumption of oxygen
- Simplified installation: Direct immersion (no flow-cell)

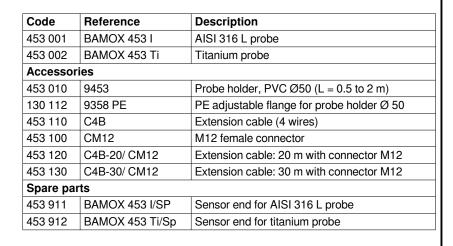
With the integrated pre-amplifier and digital signal, the sensor is highly resistant to electrical noise. The measured value of dissolved oxygen is automatically compensated of effects of variations from temperature, pressure and salinity, then, transmitted to the monitor BAMOWIZ OX 452 (data-sheet 452-01)

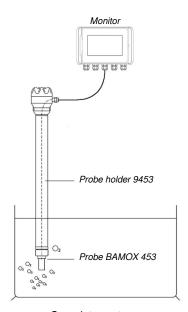
The sensor-end is easy to replace for an easier maintenance task. The compact and robust probe is available or in passivated 316 L stainless steel, or in titanium for applications in seawater and corrosive environments.



BAMOWIZ OX 452

CODE NUMBERS AND REFERENCES





Complete system



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Optical Dissolved Oxygen probe
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TECHNICAL FEATURES

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Optic-luminescent technology Principle Measurement range From 0.00 up to 20.00 mg/l 0.00 ... 20.00 ppm

0... 200 % 0.01

Resolution Accuracy ± 0.1 mg/l ± 0.1 ppm ±1%

Response time 60 seconds for 90 % of the final value

Fluid environment Not necessary circulation Operating temperature 0.... +50 °C

Temperature compensation Through a built-in NTC sensor

Temperature compensation in the range 0 to 40 °C

Accuracy

Interface For connection to BAMOWIZ OX 452

IP 68

5 ... 12 V Voltage supply

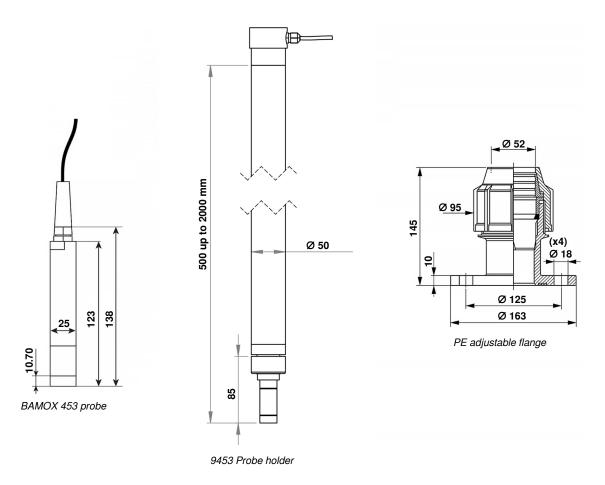
Probe

Protection

AISI 316 version: 450g (including cable) Mass Titanium version: 300 g (including the cable) Materials Wet parts: AISI 316 L passivated, or, Titanium Pressure limit 5 bar Cable 6-wire shielded cable; External PUR sheath

EC Conformity: The instrument meets the legal requirements of the current European Directives.

DIMENSIONS





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OXY 453-01/2