

## Dissolved oxygen sensor



## S423 C OPT



## General features

S423 C OPT is an oxygen measuring sensor with an integrated temperature probe. The measuring technique is based on the following optical principle: a diode emits a blue light towards a support on which a fluorescent substrate is applied. The substrate reacts by emitting initially a red light (luminescence), then returns to its initial state.

The intensity of the produced red light and the return rate to the initial state are related to the present oxygen concentration. This innovative method allows reliable, accurate measurements with no drift over time, so that system calibration is no longer necessary.

No maintenance is required except for the replacement of the luminescent support about every two years. The system does not consume oxygen, therefore it is suitable for the most varied fields of application, including those in which the measuring liquid is almost stationary.

## Applications

Surface waters, fish farms, drinking water, wastewater, sea water

Available versions with PVC body, with 4...20mA outputs

Optical measure by luminescence	
± 0,2 mg/l when < 5mg/l ± 0,3 mg/l when > 5mg/l	
T <sub>90</sub> < 60s	
< 1s	
With internal NTC probe	
050°C	

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