



SENSORS &
CONTROLLERS



ANALYZERS
& SAMPLERS



LEVEL, FLOW
& PRESSURE



WEB APP &
DATA LOGGING



ACCESSORIES

S423 C OPT DATASHEET

OPTICAL OXYGEN SENSOR



MAIN FEATURES

- Reliable concentration measurement using optical measuring process
- Dynamic luminescence measuring method
- AISI 316 or Black rigid PVC sensor body
- Interchangeable cap for luminophore's replacement
- No mechanically moving parts
- Immediate installation and easy maintenance
- Ability to see salinity and barometric pressure for oxygen value

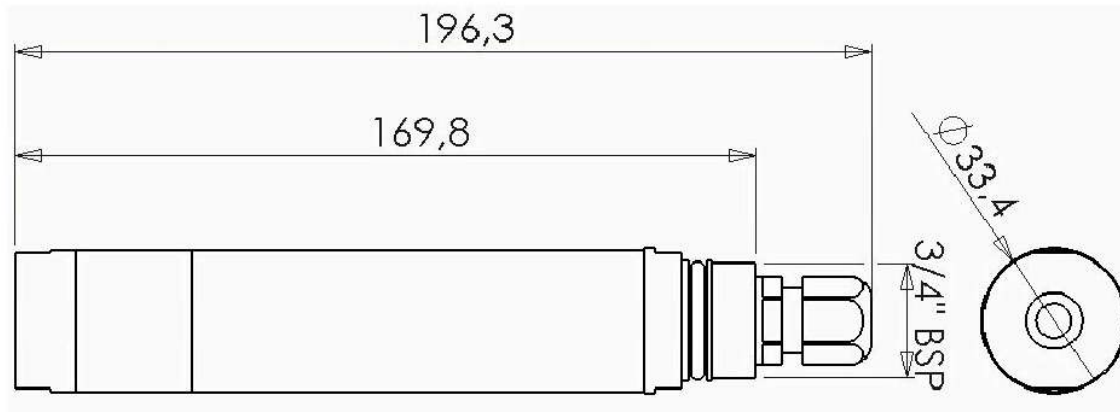
APPLICATIONS

- Measure of oxygen in wastewater
- Measure of oxygen in primary, industrial, recirculating water

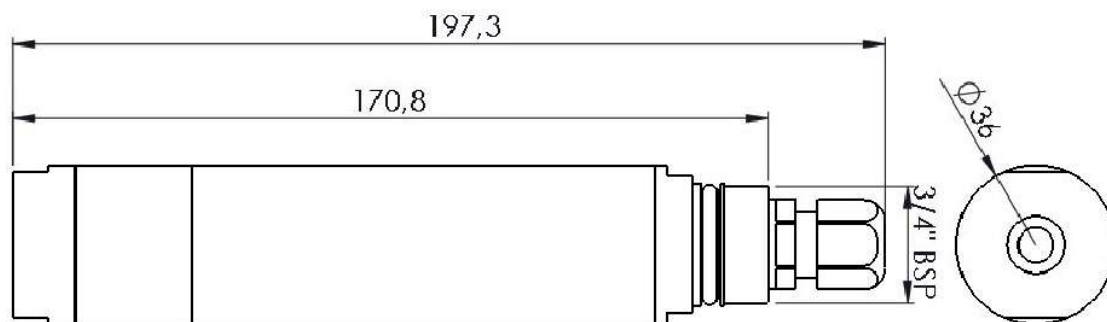
TECHNICAL DATA

Materials	• AISI 316 and PVC body • Special glass optics • NBR and silicon O rings
Thread	3/4" BSP
Measuring ranges	0,00 mg/L to 20,00 mg/L
Measuring method	Optical measure by luminescence
Calibration method	Calibration on air: 1-point calibration, Water saturated with air at 100% Calibration through sample: comparison with a standard tool Calibration on 0% solution: 1-point calibration, specific solution at 0% of oxygen saturation
Resolution	0,01 mg/L
Accuracy	$\pm 0,2$ mg/L when < 5 mg/L $\pm 0,3$ mg/L when > 5 mg/L
Repeatability	$\pm 0,1$ mg/L
Response	T90 < 60s
Maximum refreshing time	< 1 second
Working temperature	0÷50 °C Accuracy $\pm 0.2^{\circ}\text{C}$
Max working pressure	5 bar
Max absorption	2W
Mechanical protection	IP68 Sensor+cable
Cable	10m integral
Power supply	12...24Vdc
Signal interface	RS-485 Modbus RTU Protocol (4-20mA opt.)
Water move	No necessary move
Compensation of temperature	Via internal NTC
Luminophore diameter	10 mm
Connettore IP67	Yes

DIMENSIONS (AISI AND PVC VERSION)



DIMENSIONS (PVC VERSION)



ORDER CODES

9700830067	S423/C/OPT Optical Oxygen and Temperature Probe
9700831067	S423/C/OPT PVC Optical Oxygen and Temperature Probe
9700832067	S423/C/OPT 4-20mA Optical Oxygen and Temperature Probe
9700833067	S423/C/OPT 4-20mA PVC Optical Oxygen and Temperature Probe
9400410134	Luminescent membrane with AISI316 support for S423/C/OPT
9400411112	Fish farming Cap Kit for S423/C/OPT