



SENSORS &
CONTROLLERS



ANALYZERS
& SAMPLERS



LEVEL, FLOW
& PRESSURE



WEB APP &
DATALOGGING



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 set salinity and barometric pressure for oxygen value

APPLICATIONS

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

CHEMITEC S.R.L.

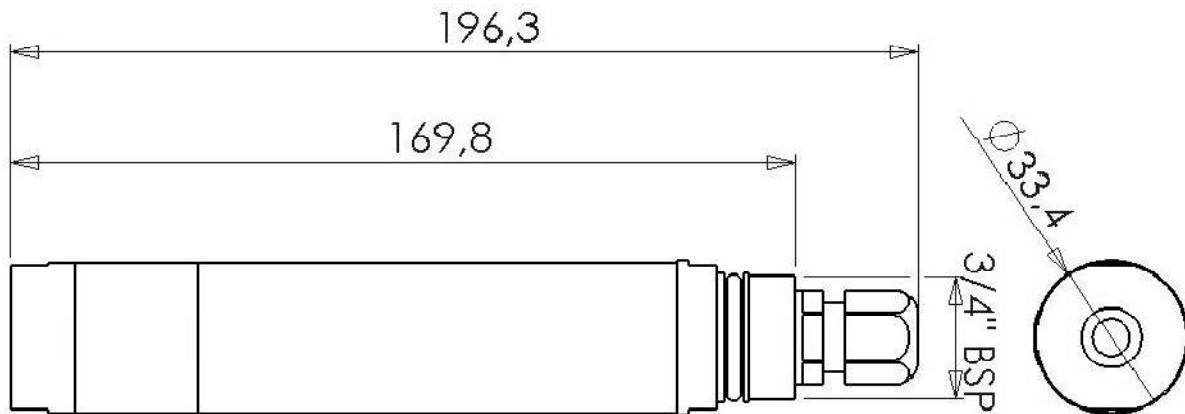
VIA I. NEWTON, 30 50018 SCANDICCI (FI) - ITALY
+39 0557576801 • sales@chemitec.it • www.chemitec.it

S423 C OPT DATASHEET

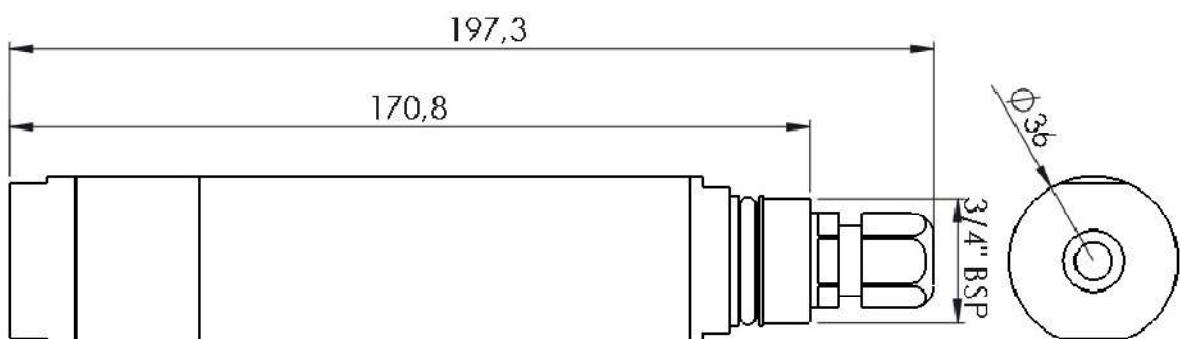
TECHNICAL DATA

| | |
|-----------------------------|---|
| 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: I-point calibration, Water saturated with air at 100% Calibration through sample: comparison with a standard tool Calibration on 0% solution: I-point calibration, specific solution at 0% of oxygen saturation |
| Resolution | 0,01 mg/L |
| Accuracy | ± 0,2 mg/L when < 5mg/L ± 0,3 mg/L when > 5mg/L |
| Repeatability | ± 0,1 mg/L |
| Response | T90 < 60s |
| Maximum refreshing time | < 1 second |
| Working temperature | 0÷50 °C Accuracy ± 0,2°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 |