

TecControl – Optochemical O₂ sensor system for process control and industrial processes



- Opto-chemical O₂ sensor system for gases and fluids (pH 1-13)
- Sensor protection layers available
- Digital data connection
- Sensor cap replaceable
- Self diagnostic system
- Factory calibrated – plug and play
- Extremely fast, t₉₀ <2s in gas, t₉₀<30s in fluids
- SIP- und CIP- applicable

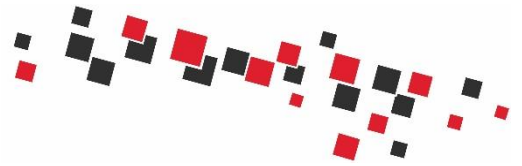
Applications:



- Industrial processes, Petrochemical industry, Electronic industry
- Technical gases and process gases
- Pharma industry, Biotechnology, Fermentation , Bioreaktors
- Food and beverage industry – Breweries- Soft drinks, Juices



TECSENSE
unique solutions in sensor technology



Sensor system:

Sensor system :

- Oxygen concentration in low ppb range
- Fastest measurement ($t_{90} < 30$ s) in Liquids (($t_{90} < 2$ s) in Gas
- Minimal service requirements (about 0,5 h in 6 months)
- Long-term stability, drift-free
- Temperature: 5 – 130°C
- Pressure: 40mbar- 10bar absolute
- Highest endurance according to industry standards
- No cross sensitivity to: CO₂, H₂S, ionic strength, flow rate



Specifications :

- | | |
|--------------------------|---|
| • Dimensions: | Ø 90 mm x 50 mm |
| • Sensor rod: | Ø 12 mm x 30 – 250 mm |
| • Material: | St. 1.4404 or Teflon (on request) |
| • Housing: | Aluminum anodized or St. 1.4404 |
| • Data interface: | Standard RS 232, optional RS 485 |
| • Power supply: | 24 V |
| • Optional accessories : | Tec Interface O ₂ data and display unit (4-20mA - RS 232 /RS 485) |



Performance Data- Gas / Fluids

Gas:

Range trace:	Accuracy
Total range: 0–2000ppm (0– 0,2%)	
• 0 – 500 ppm	± 5 ppm
• 500 – 1000 ppm	± 10 ppm
• 1000 – 2000 ppm	± 50 ppm

Range medium:

Total range: 0 – 20.000ppm (0 – 2%)	
• 0 – 1000 ppm	± 20 ppm
• 1000 – 5000 ppm	± 50 ppm
• 5000 – 20.000 ppm	± 200 ppm

Range standard:

Total range: 0 – 220.000ppm (0 – 22%)	
• 0 – 50.000 ppm	± 500 ppm
• 50.000 – 220.000 ppm	± 1000 ppm

Range high:

Total range: 0- 100 %	
• 0 – 10 %	± 0,3 %
• 10 – 50 %	± 2 %
• 50 – 100 %	± 5 %

Fluids:

Range trace:	Accuracy
Total range: 0–2000ppb	
0 – 2000 ppb	± 3 % FSc

Range medium: Accuracy

Total range: 0 – 2mg/L	
0 – 2mg/L	± 2 % FSc

Range standard:

Total range: 0 – 10 mg/L	
0 – 10 mg/L	± 2 % FSc

Range high:

Total range: 0 – 40 mg/L	
0 – 20 mg/L	± 3 % FSc
20 – 40mg/L	± 5 % FSc