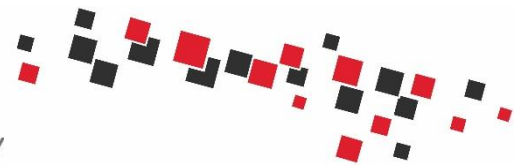




TECSENSE
unique solutions in sensor technology



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

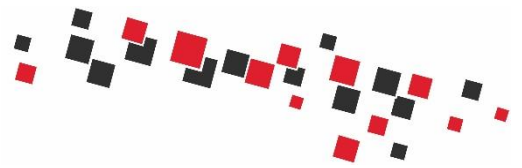


- Opto-chemical O₂ sensor system for gases and fluids (pH 1-13)
- Sensor protection layers available
- Digital data connection
- Sensor cap replaceable
- Self diagnostic system
- Factory calibrated – plug and play
- Extremely fast, t₉₀ <2s in gas, t₉₀<30s in fluids
- SIP- und CIP- applicable

Applications:

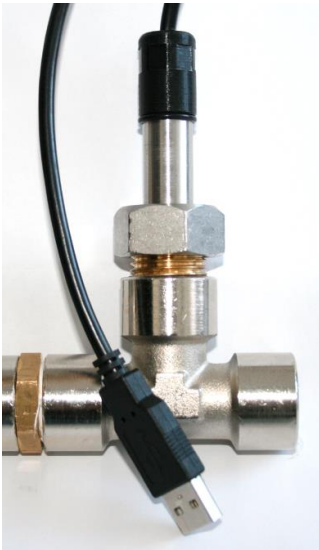


- Industrial processes, Petrochemical industry, Electronic industry
- Technical gases and process gases , Gas generators
- MAP-pillow bags, inline control before sealing
- Pharma industry, Biotechnology, Fermentation , Bioreaktors
- Food and beverage industry – Breweries- Soft drinks, Juices
- Waste water and Fish farming



Sensor system:

- No cross sensitivity to: CO₂, H₂S, ionic strength, flow
- No flow requirements
- Applicable in explosive environments
- Temperature: 5 – 80°C (additional temperatures on request)
- Pressure: 100 mbar – 5 bar absolute (up to 10 bar on request)



Specifications:

- Dimensions: Ø12mm x length 60mm (½"-connector)
- Versions: Inline-system: ½" stainless steel
- Connections: ½" , PG 13.5 thread and Varivent
- OEM-package: Ø12mm x length 12mm
- Material: St. 1.4404 or Teflon
- Data interface: USB (Standard) or RS 232 , RS 485
- Power supply: 24 V, USB 5V
- Tec Interface: 4-20 mA and digital (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