



a new dimension for optochemical O<sub>2</sub> mesasurment cells







- For ambient atmosphere or as Flow-through version
- smallest dimensions, diameter 20mm, hight 8.5mm
- lowest power consumption: standby 20μA; measurement 30mA
- battery powered lifetime up to 3 years (2xCR2032)
- precalibrated
- zero and end point adjustment by customer possible
- all versions with BLE output, range up to 80 meter
- internal data storage of 10.000 values when running in battery mode (e.g. in closed containers)
- food certified materials
- power supply 5V DC or 6V battery
- for battery mode BLE to WLAN to server infrastructure available
- UART to USB transfer unit for computer use available

## Configurations

## Standard packages: Batch calibrated

OXsense sensor UART or RS485/BLE 0-21% O<sub>2</sub>
OXsense sensor UART or RS485/BLE 0-2000ppm O<sub>2</sub>

#### **Trial Package:** Batch calibrated

OXsense sensor UART/BLE
UART – USB converter
Cable
TecService Software

### **Developer Package:** Batch calibrated

OXsense sensor UART/BLE Router & Router power supply Rasperry Pi4 server & power supply Rasperry Pi Zero transfer unit & Power supply Cables for units

#### **OEM Package:**

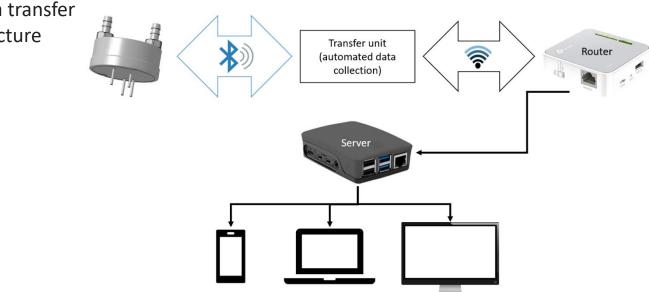
OXsense sensor UART/BLE

TS-System	Oxsense 0-2000 ppm		<b>Oxsense</b> 0.0-21%		
Measuring range					
	Range Accuracy		Range Accuracy		
	0-100ppm	± 2% Mev**	0-5%	± 2% Mev**	
	100-1000ppm	±3% Mv*	5-15%	±3% Mv*	
	1000-2000ppm	± 4% Mv*	15-21%	±4% Mv*	
Resolution	1 ppm		0,	0,01%	
Response time at 25°C/ 77°F	<1	5s	<5s		
Max. Pressure	2bar				
Temp. range Min./Max	0°C/ 40°C				
	32°F/104°F				
Medium	Gas				
Average lifetime LED	min. 10.000h				
Power supply	5-6V DC				
Power Consumption	Less than 1mA (BLE mode)				
Data Interface	UART or RS485/ always BLE				
Temperature compensation	4 - 40°C				
	32 - 104°F				
Pressure compensation	yes				
Data Output	digital				
Working method	Optochemical fluorescence quenching				
Connection	Electric and data: 4 pins for +/- Rx/Tx Pneumatic: 1mm silicon tube or free flow				
Guaranteed lifetime of system (0-40°C or 32-104°F; no corrosive gases. no hydrocarbon)	12 months				
Recommended zero-point adjustment interval by customer	3 months				

Warranty \*\*Mev = measured end value

adjustment interval by customer Replacement of system

# Data transfer structure



3 years

1 Year ex works

<sup>\*</sup>Mv = measured value