



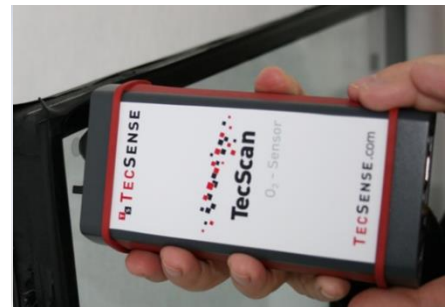
# TecScan - Optical Oxygen-Sensor

Portable device for QS and production

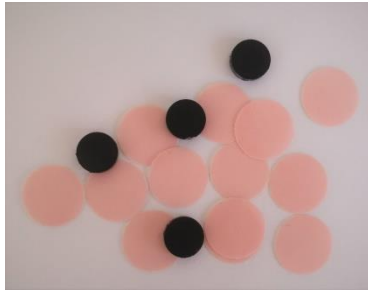


- Opto-chemical O<sub>2</sub> sensor system for gases and fluids
- Measurement with sensor-spot through transparent packages
- Sensor-Spot available as adhesive or printable spot
- None gas extractive system - for small gas- and fluid volumes
- Sensor-spots factory calibrated
- Self diagnostic system
- Short measurement time < 3s

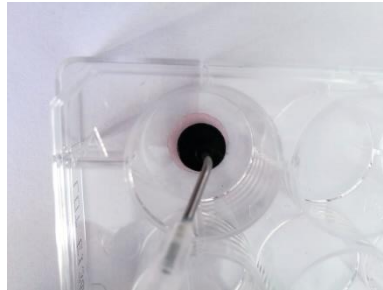
## Applications:



- Pharma- and biotechnology
- Food industry / MAP-packaging
- Bacteriology - detection of growth of (pathogen) microorganism
- R & D in biochemistry and molecular biology
- Insulation glass-industry



adhesive sensor-spots,  
8 and 12mm diameter



Placing an adhesive sensor  
spot in a well plate



Placing an adhesive sensor  
spot in a glass bottle

## Non invasive O<sub>2</sub> concentration measurement in closed, transparent containers

- In vials, well plates, cell growth-container, microbial detection-systems (blood culture bottles)
- In food packages with MAP-atmosphere
- In micro-bioreactors
- In incubators

### Package:

- Portable device with self-diagnostic-system, tablet PC and blue-tooth connection or as labor system with USB-cable for PC connection
- Sensor-spots: single adhesive spot, multiple spots on foils or with manual dispenser (also as lot-calibrated sensor-spots available)
- Intuitive Measurement software for Windows, Excel-compatible data files for QS

### Performance:

#### Gas

- Measurement range: 0.05 – 25 (100)Vol.%
- Accuracy (\*): ± 0.05% or  
(\*...higher value is valid) < ±2% from value
- Resolution: <0.05%
- Response time: < 1 s
- Calibration at: 20° / 25° / 37° (additional temperatures optional)
- Dimensions: 16x 8x 4cm (LxBxH)

#### Fluids

- 0 – 10 (20)mg/l
- ± 0.05mg/l or  
< ±2% from value
- < 0.05mg/l
- ca. 20s  
(< 30s in aggressive fluids)