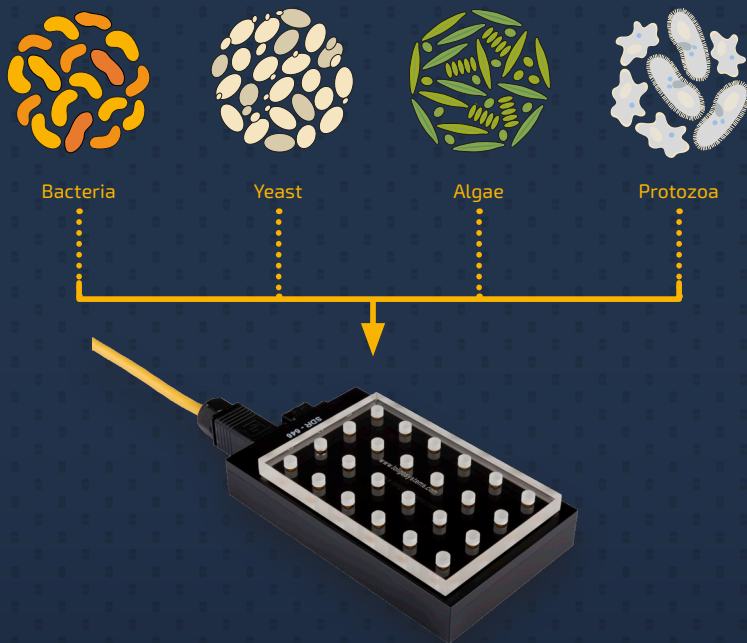


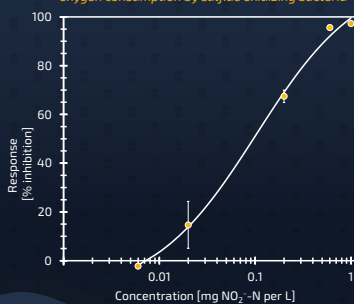
MICROPLATE RESPIROMETRY

High throughput O_2 consumption and production measurements of microorganisms in suspension

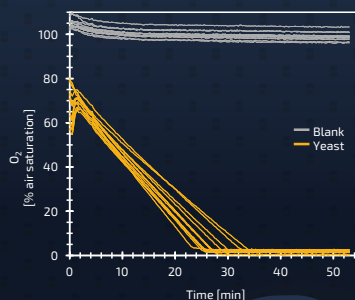


REAL DATA EXAMPLES

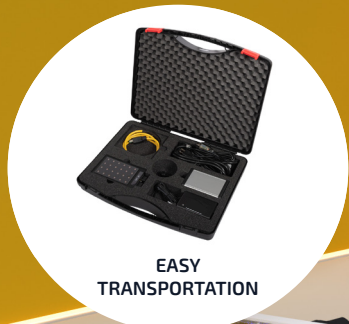
Dose-response curve showing nitrite inhibition of oxygen consumption by sulfide oxidizing bacteria



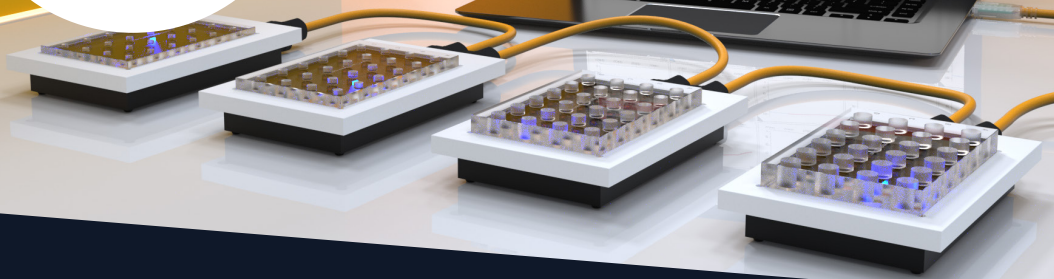
Oxygen consumption by yeast (*Saccharomyces cerevisiae*)



Loligo® Systems



**EASY
TRANSPORTATION**



FEATURES

- Measure oxygen consumption or production in water or air
- Determine respiration rates in 24-well microplates
- Real-time O₂ measurements inside each gas-tight well
- Available well volumes: 80, 200, 500, 940, and 1700 µl
- Non-invasive & non-destructive measurements
- Re-usable sensors and glass microplates
- Optical sensors can be re-calibrated for multiple trials
- Compact design for use in incubators or on shakers
- Connect up to 10 plate readers to a single PC via USB
- User-friendly Win 11 software without subscription fees

CORE SYSTEM COMPONENTS

- 24-channel plate reader
- Glass microplate fitted with 24 sensor spots
- MicroResp™ software for Win 11
- Self-adhesive polyester sealing film (100 pcs)
- Plate guide, splitter, and USB cable

OPTIONALS

- Flow-through water bath for temperature control
- Plate roller for applying sealing film

FEATURE	SPECIFICATIONS
Compatible oxygen sensor	Reusable sensor spots
Oxygen channels	24
Power supply	100-240 V AC
Power adaptor	100-240 V AC IN / 18-24 V DC O
Oxygen units	% oxygen saturation, % air sat., kPa, Torr, mg/L, mmol or mL/L
Measurement range	0-50 % oxygen saturation 0-235 % air saturation 0-50 kPa 0-235 Torr 0-22.5 mg/L 0-700 µmol 0-22.5 mL/L
Resolution	± 0.4 % O ₂ at 20.9 % O ₂ ± 4 hPa at 207 hPa ± 5 µmol at 283.1 µmol ± 2 % air saturation at 100 % air saturation
Sample interval	From <5 to 60 sec.
Precision	± 1 % O ₂ at 20.9 % O ₂ ± 5 % air saturation at 100 % air saturation
Drift at 0 % oxygen (sampling interval 10 min.)	< 0.2 % O ₂ within one week < 1 % air saturation within one week
Measurement temperature range	5-45 °C
Response time (T90)	< 30 sec.
Compatibility	Aqueous solutions, ethanol, methanol
Cleaning procedures	Ethanol / chlorine solution