

## Specifications table for micro plate reader system

Specifications	Micro plate reader system
Compatible oxygen sensor	Sensor spots
Oxygen channels	24
Power supply	18-24 V DC
Power adapter	100-240V AC in; 18-24 V DC out
Communication interface	USB 2.0
Dimensions [mm]	163 x 89 x 22
Weight [g]	380
Windows version	WIN10
Oxygen unit	% oxygen saturation, % air saturation, 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 <sub>2</sub> at 20.9 % O <sub>2</sub> ± 4 hPa at 207 hPa ± 5 µmol at 283.1 µmol ± 2 % air saturation at 100 % air saturation
Precision	± 1 % O <sub>2</sub> at 20.9 % O <sub>2</sub> ± 5 % air saturation at 100 % air saturation
Drift at 0 % oxygen (sampling interval 10 min)	< 0.2 % O <sub>2</sub> within one week < 1 % air saturation within one week
Measurement temperature range	5 – 45 °C
Response time (T90)	< 30 sec.
Sensor properties	MINI
Compatibility	Aqueous solutions, ethanol, methanol
Cross-sensitivity to	Reduced to ionic strength (salinity); high concentration of small fluorescent molecules in the visible range can interfere
Cleaning procedures	3 % H <sub>2</sub> O <sub>2</sub> , Cleaning in place (CIP, 5 % NaOH, 90 °C, 194 °F) Acidic agents (HCl, H <sub>2</sub> SO <sub>4</sub> ), max. 4 – 5 %
Calibration	one- or two-point calibration