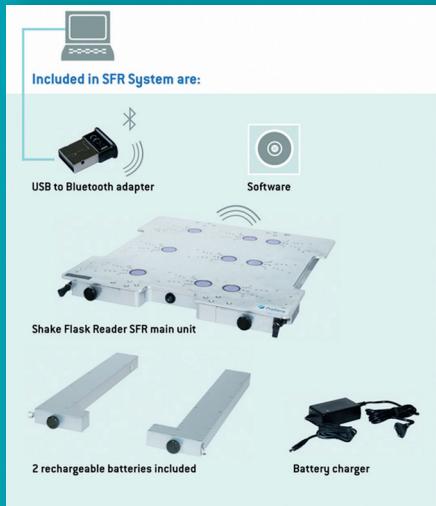


Shake Flask Reader

includes SFR main unit, software, USB to Bluetooth adapter, battery charger & 2 rechargeable batteries



Shake flask with sensor spots

for non-invasive online measurement of dissolved oxygen and pH



Software

The SFRS software from PreSens provides an integrated database to evaluate measurements. These results are displayed in real time during the entire cultivation. The software has a data logging function. The data can be displayed in a variety of graphical formats and can be exported to Excel or as a csv-file for further evaluation. The current measurements can be compared with previously stored cultivation data online. The connection between the SFR and the PC is wireless.

Oxygen-Sensor

Range

0-100%

Accuracy

$\pm 0.01\% \text{ O}_2$ at $0.21\% \text{ O}_2$
 $\pm 0.1\% \text{ O}_2$ at $20.9\% \text{ O}_2$

Drift

$< 0.015\% \text{ O}_2$ per day

Cross-sensitivity

Typically no cross-sensitivity in culture media

Temperature range

up to 50°C

pH-Sensor

Range

pH 5.5 - pH 8.5

Accuracy

$\pm 0.05 \text{ pH}$ at pH 7 with one-point calibration
 $\pm 0.10 \text{ pH}$ at pH 7 with precalibration

Drift

$< 0.005 \text{ pH}$ per day

Cross-sensitivity

Reduced to ionic strength (salinity).
A high concentration of small fluorescent molecules in the visible range can interfere.

Temperature range

up to 50°C

Shake Flask Reader

Shaker

Suitable for all Kuhner Shakers (V/W/X-serie)

Temperature range

$5^\circ\text{C} - 50^\circ\text{C}$

Flask

Flask	Positions
125mL	9
200mL	9
500mL	9
1000mL	6
2000mL	5