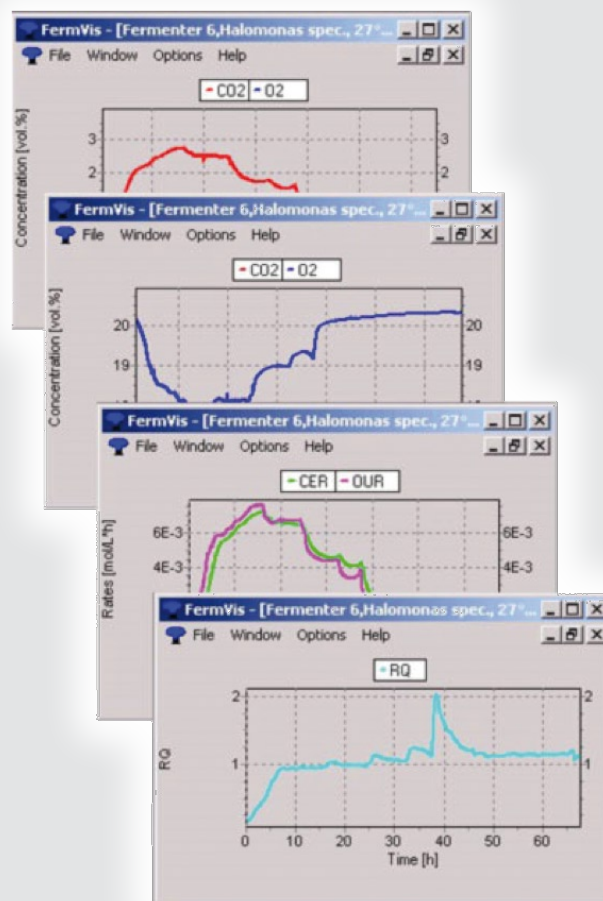


Advantages

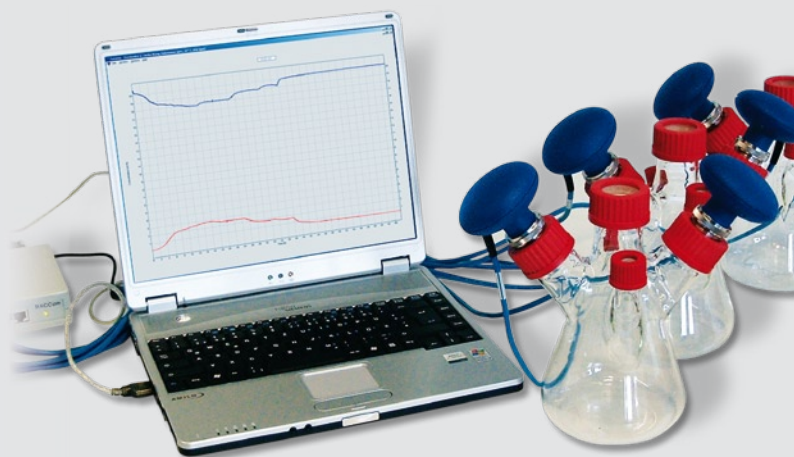
- > maximum results with minimum effort
- > reasonably priced
- > dependable and reliable
- > complete analyzing system
- > scalable growth
- > real time measurement
- > highest measuring density during cultivation
- > simultaneous analysis of CO₂ and O₂
- > shows OTR, CTR and RQ in real time
- > defined test conditions
- > high comparability
- > controllable limitations
- > modular set-up



Application areas

Analysis of metabolic processes in:

- > shake flasks
- fermenters



Data Sheet



| Sensor | | |
|---------------------------------|--|---|
| Measuring principle | CO ₂ : Infrared, dual wavelength O ₂ : Zirconium dioxide (do not use in explosive atmospheres) | |
| Measuring range CO ₂ | 0 - 10 Vol.%, 0 - 25 Vol.%, 0 - 50 Vol.%* | |
| Measuring range O ₂ | 0,1 - 25 Vol.%, 1 - 50 Vol.% | |
| Long-term stability/Drift | < ± 2% value/year | |
| Connection tolerance | < 0,2% FS*** ± 3% reading | |
| Accuracy | < 0,2% FS*** ± 3% reading | |
| Housing | PA | |
| Dimension/Weight | 80 x 160 mm D x W / approx. 350g (0.77 lb) | |
| Pressure dependence | Compensated: ± 3% reading (range) | |
| Operating humidity | 0 - 100% | |
| Maintenance | 1-point adjustment once a month (ambient air) Optional factory calibration once a year | |
| Mechanical connector | GL 45** | |
| Temperature range** | +0°C - +25°C +15°C - +40°C +30°C - +55°C | +32°F - +77°F +59°F - +104°F +86°F - +131°F |
| Storage temperature | +0°C - +60°C | +32°F - +140°F |
| | < 75% RH non-condensing | |
| Pressure range | 0,8 - 1,3 bar** | 11.6 - 18.85 psi** |

| BACCom | |
|--------------|-----------------------|
| Input | RJ 45 for 12 sensors |
| Output | RS 232, Ethernet, USB |
| Power supply | 12 VDC, 4A |

| FermVis | |
|---------------------|---|
| Display mode | Graph for CO ₂ and O ₂ concentration Graph and Table for OTR, CTR and RQ |
| System requirements | Win98 or higher |

*accuracy < 0,5% FS ± 5% reading
** others on request *** FS = full scale