

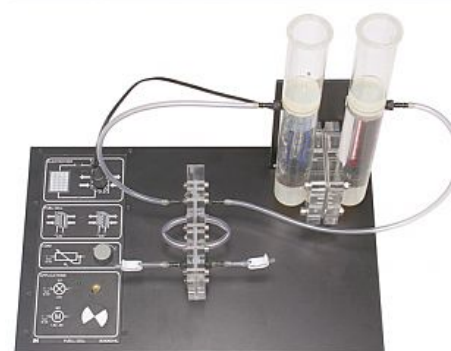
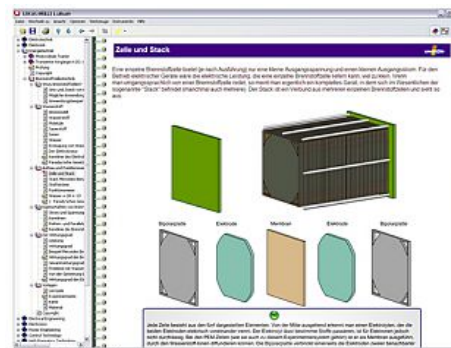
Item No.: SO4204-3C

## Course - Power engineering: Fuel cell technology

### Includes:

Experiment panel with:

- PEM double fuel cell
- PEM electrolyser with scaled gas storage device
- Power supply 2V/ 2.5A
- Consumers
- Hoses, hose clamps
- Variable load for characteristic recording
- CD-ROM with Labsoft browser and course software



### Course content:

- Functional and operating principle of fuel cells
- Recording the characteristics of a fuel cell
- Learn to explain the electrochemical processes of electrolysis (Faraday's first and second law)
- Faraday's laws and determining the energy efficiency of a fuel cell
- Series and parallel configuration of fuel cells
- Considerations regarding the power of fuel cells
- Functional and operating principles of electrolysers
- Recording the VI characteristic of the electrolyser
- Faraday's laws and determining the energy efficiency of an electrolyser
- Course duration approx. 4.5 h