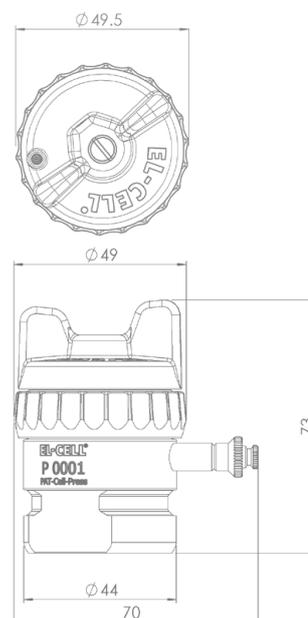




Measurements in mm:



PAT-Cell-Press II

The PAT-Cell-Press II is the ideal, leakproof cell for measuring gas evolution.

The PAT-Cell-Press II is a pressure test cell for measuring gas evolution and drawing gas samples (option). For this purpose it is equipped with advanced digital pressure and temperature sensors. Its wireless connection to the potentiostat reduces interference and minimizes setup time. With laser-welded sensors, glass-to-metal electrode feedthroughs, and metal seals, the PAT-Cell-Press II ensures maximum cell tightness against the ambient atmosphere. It utilizes the modular PAT-Core system, providing flexible and time-saving cell stack configurations suitable for both aprotic and aqueous electrochemistry.

The PAT-Cell-Press II replaces the previous PAT-Cell-Press. It is designed for use with EL-CELL potentiostats to fully utilize all sensor functions.

Key Features

- Cableless test cell with all advantages of the PAT-Core
- Digital temperature and gas pressure sensors, pressure range of 0 to 3 bar abs.
- Optional gas sample port (PAT-Cell-Press II S)
- Compatible with aprotic as well as aqueous electrochemistry
- PAT-Button for automatic cell identification in EL-Software

Use Cases:

- 2- or 3 electrode setup
- Quantifying gas evolution / consumption
- Taking gas samples for subsequent analysis
- Aprotic and aqueous electrolytes

Product website:



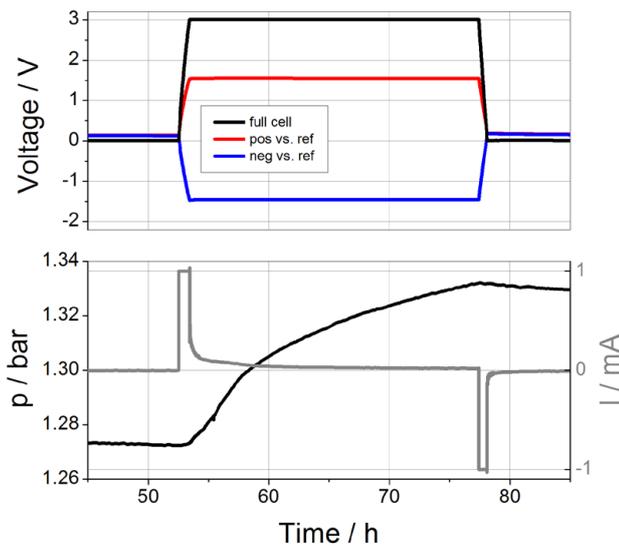
Manual (PDF):



Specifications

Height	61 mm
Diameter Lid / Cell base	49.5 mm / 44 mm
Width with attached sample port (PAT-Cell-Press-S)	70 mm
Weight	0.5 kg
Separator diameter	21.6 mm
Electrode diameter	18 mm
Dead volume (with inserted PAT-Core / without PAT-Core)	3.6 ml / 8.1 ml
Digital temperature sensor	-20 to +80 °C
Range of digital gas pressure sensor	0 to 3 bar abs.
Accuracy of digital gas pressure sensor	< 5 mbar
Resolution of digital gas pressure sensor	0.1 mbar
Operational temperature	-20 to +80 °C

Sample test result



Pressure response during cc/cv cycling of a supercapacitor
Test setup: PAT-Cell-Press, activated carbon electrodes, activated carbon reference, 1M TEABF₄ in acetonitrile, 25µm polyolefine separator (2x)

Available variants



PAT-Cell-Press II S
with gas sample port



PAT-Cell-Press II