

Flow battery test equipment

Research tool proven by thousands efficient cycles



Lab-scale

Pinflow test equipment comprises two classes. Lab-scale test rig (dimensions 55x55x90 cm) is tailored for one or two Pinflow battery lab-cells. Use for direct proof-of-concept measurement for new chemistries or material research of components.



Pilot-scale

Characterization of stacks or engineering research of redox flow battery scale-up may be faster with Pinflow pilot-scale test rig (dimensions 75x120x125 cm). Together with stack may be used as working prototype of redox flow battery.



Scale up those things that do work

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Lab-scale test rig

Peristaltic pumps with flow rate up to $300 \text{ cm}^3 \text{ min}^{-1}$

Temperature control from -5 to $+50 \text{ }^\circ\text{C}$

Battery cycler (on demand power)

Sensors

Optimized for two Pinflow battery lab-cells

Pilot-scale test rig

Centrifugal pumps on vessels ($2 \times 150 \text{ dm}^3$)

Battery cycler (up to 10 kW)

Temperature control

Sensors

Control software and hardware



Available sensors

Temperature (cell in, cell out, vessel, surrounding)

Open circuit voltage (cell in, cell out)

Open circuit potential

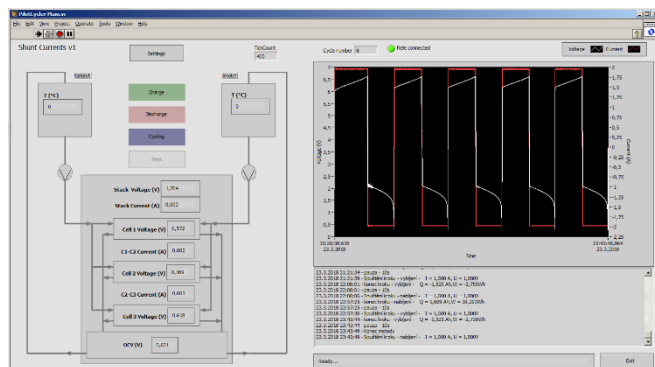
Pressure (cell in, cell out)

Ultraviolet-visible spectroscopy (stream, vessel)

Conductivity (stream, vessel)

Leak detection

Electrolyte level indication



Information subject to change without notice.

