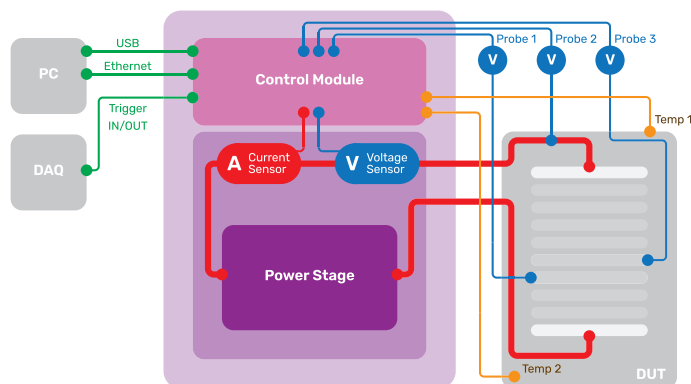


Block Schema Ultimate Line



Deployment Scenarios



Fuel Cell & Electrolyzer Characterization

Perform precise polarization curves and continuous load profiling. Validate the efficiency, degradation, and performance of single cells and short stacks under dynamic, real-world operating conditions.



Battery Lifecycle & Degradation Studies

Execute long-term charge/discharge routines combined with periodic impedance sweeps. Accurately track State of Health (SoH) and pinpoint internal resistance changes over thousands of cycles.



Catalyst & Material Benchmarking

Evaluate novel membranes and electrode materials. Run high-resolution Cyclic Voltammetry (CV) and Chronoamperometry to analyze reaction kinetics and stability before initiating costly scale-ups.



Automated Test Rig Integration

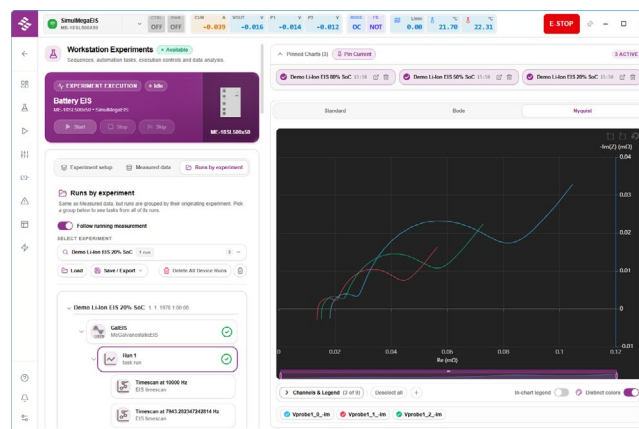
Deploy as a reliable execution engine in complex, 24/7 setups. Utilize native TCP/IP control and Python scripts to fully automate multi-step electrochemical procedures without manual supervision.



Artemis

Kolibrik Measurement & Control App

- Fully redesigned app with an intuitive workflow. A single environment to drive your entire Kolibri setup—seamlessly managing our Potentiostats, MegaEIS, and CVM modules.
- Code-Free Design: Complex testing for fuel cells, batteries, and electrolyzers via a clear graphical interface without writing custom scripts.



Automated Method Sequencing

Build multi-stage experimental procedures by seamlessly combining various electrochemical methods into a single, automated sequence.



Real-Time Data Visualization

Navigate testing protocols using a hierarchical method tree structure. Monitor channels, status, and live data to ensure experiment stability.



Flexible Data Management

Save and load experiment settings and data effortlessly, with options to export your results to CSV for convenient analysis.

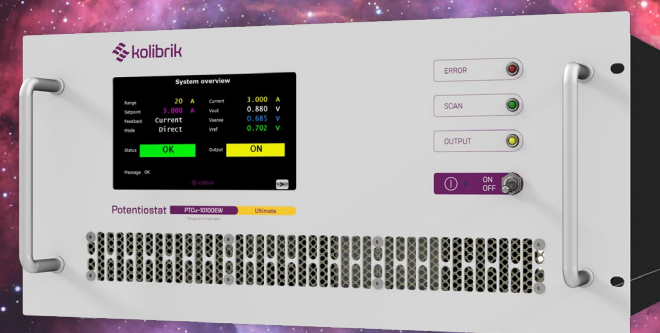


Granular Parameter Control

Configure individual device settings, sampling frequencies, and measurement ranges independently for each method phase.



Potentiostat/ Galvanostat



Designed for H2 & Batteries

- High-Current Potentiostat with EIS
- Up to ± 100 A and ± 10 V
- Temperature Monitoring



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Potentiostat Ultimate Line

- MegaEIS™ Architecture in 4 Quadrants. High-Speed 3-Channel Acquisition.
- Built for the most complex R&D tasks. Brings the simultaneous processing of our MegaEIS™ platform into an all-in-one potentiostat. Features 1.25 Msps high-speed sampling, delivering advanced diagnostics without multiplexing.



Ultimate Line Exclusives

- 3 independent voltage channels, Up to 1.25 Msps acquisition, Ethernet connectivity, Dual-channel thermal input, Trigger IN/OUT



Advanced Diagnostic Methods

- Fast high- and multi-frequency resistance, High-resolved square pulses, PRBS, Current interrupt, High-speed EIS during charge/discharge process, Advanced battery testing protocols



Potentiostat Core Line

- High-Current All-in-One Architecture. Stable Data at Scale.
- Engineered for robust performance and continuous high-power testing. This heavy-duty hardware features an integrated display and ensures uncompromised signal stability for demanding R&D setups. Upgrade and integration options.



Potentiostat Essential Line

- Compact air-cooled PTCe-0520E & PTCe-1020E models are ideal for education and small labs.
- Designed to maximize your research budget. This highly affordable solution eliminates standalone hardware overhead while delivering the exact same 4-quadrant operation, full-range EIS, and unified app Artemis for routine lab testing.



Kolibrik Potentiostats Upgrades & Features



Synchronized Thermal Data

Optional TEVOMET module for precise temperature tracking, directly synchronized with your electrochemical data.



3rd-Party Cycler & External Load Integration

Scale up by parallelizing with 3rd-party hardware. External current probe for exact EIS measurements during cycling.



Designed for EIS 1 mHz ... 100 kHz

EIS analysis of fuel cells, electrolyzers, and batteries, advanced measuring methods.



True 4-Quadrant Operation

Acting as both a power source and an electronic load, enabling full-cycle testing.

Model	Voltage	Current	Cooling
Ultimate Line			
PTCu-1020E	-5 V ... +10 V	±20 A	Air
PTCu-0550E	±5 V	±50 A	Air
PTCu-1050EW	±10 V	±50 A	Water*)
PTCu-05100EW	±5 V	±100 A	Water*)
PTCu-10100EW	-2 V ... +10 V	±100 A	Water*)
Core Line			
PTC-0550E	±5 V	±50 A	Air
PTC-1050EW	±10 V	±50 A	Water*)
PTC-05100EW	±5 V	±100 A	Water*)
PTC-10100EW	-2 V ... +10 V	±100 A	Water*)
Essential Line			
PTCe-0520E	±5 V	±20 A	Air
PTCe-1020E	-5 V ... +10 V	±20 A	Air

*) Water cooling via standard lab chiller and fittings.