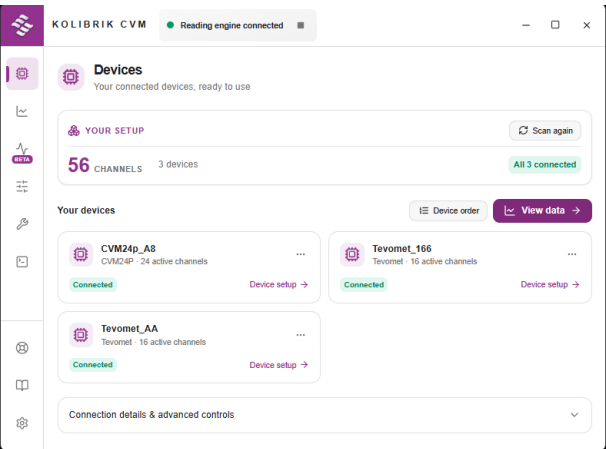


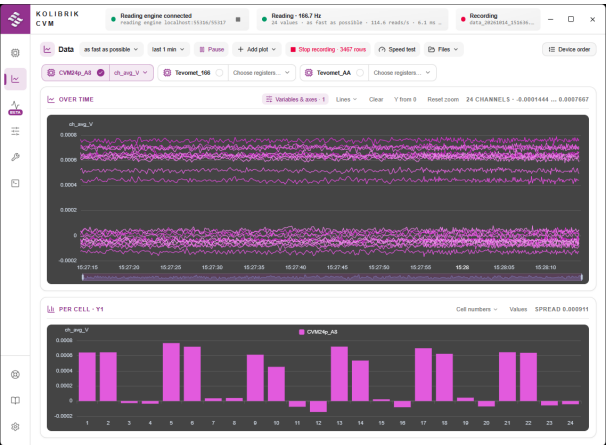
Kolibrik CVM Software

Measurement & Control App

Plug & Play Auto-Discovery. Skip manual configuration. The software instantly maps CAN and RS-485, autonomously detecting hardware and configuring channels so you can start measuring immediately.



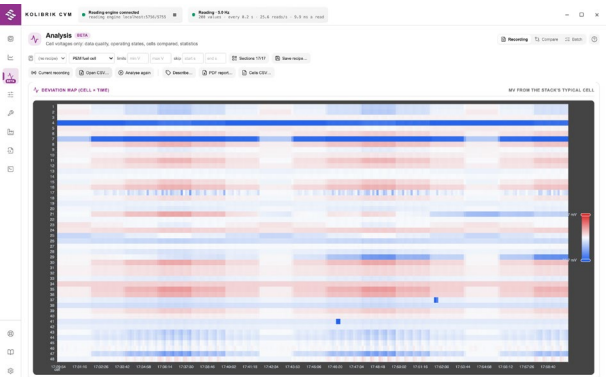
High-Speed Acquisition. Capture rapid dynamic transitions with 24-bit precision – internal sampling up to 500 sps (CVM-24P) / 250 sps (CVM-64H2), read across the whole system at the full speed of the bus.



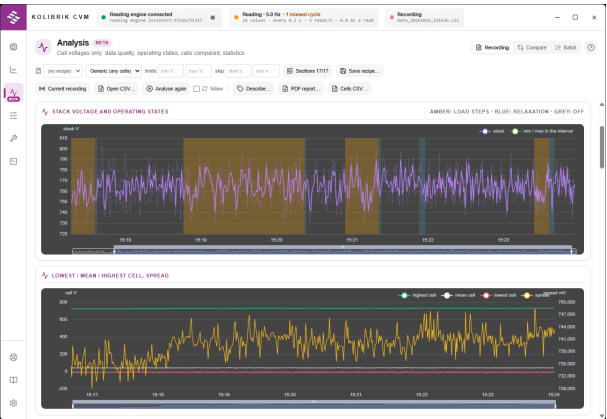
Complete Overview

Live Monitoring & In-Depth Analysis

The Kolibrik CVM Software shows every individual cell voltage live across the entire stack and fully records each test. Its built-in analysis follows each test and pinpoints weak cells, uneven loads, and failure patterns like reactant starvation, flooding or membrane dry-out, helping prevent costly stack damage.



Advanced Analytics & Reporting. Translate raw voltages into exact engineering insights. Apply technology-specific physical models to evaluate cell uniformity, and generate complete PDF test reports – including data heatmaps and error logs – with a single click.



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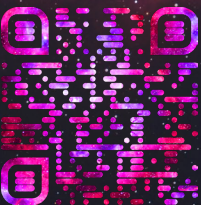


Cell Voltage Monitoring



Designed for Hydrogen & Batteries

- Up to 1280 Channels
- Voltage up to ± 5 V
- Up to 24-bit / 500 sps



www.kolibrik.net

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CVM-24P



High-Speed & Accuracy.
Purpose-Built for
Advanced Diagnostics.

Channels 24 / module
Voltage ± 5 V / module
Sampling 24-bit / 500 sps
Up to 480 channels

A cell voltage monitoring system fit for advanced diagnostics and research of **H2 fuel cells, electrolyzers and batteries including redox-flow**. With 24-bit A/D converters, it provides precise results and speed to capture rapid electrochemical changes.

CVM-32A



Essential performance
for budget-sensitive
applications.

Channels 32 / module
Voltage ± 1.5 V / module
Sampling 12-bit / 100 sps
Up to 320 channels

A compact and cost-effective **fuel cell stack** monitoring solution designed for standard testing and budget-sensitive applications.



CVM-64H2



Balanced Performance.
High Channel Density.
Industrial Reliability.

Channels 64 / module
Voltage ± 3 V / module
Sampling 24-bit / 250 sps
Up to 1280 channels

A new-generation CVM module delivering high channel density and industrial-grade reliability. Ideal for **large-scale electrolyzer or fuel cell stack** monitoring with a balanced performance-to-cost ratio.

TEVOMET TV-16



Multi-channel
temperature and voltage
monitor/meter

Channels 16 / unit
Voltage ± 1.5 V / ± 150 V
Sampling 16-bit / 5 sps
Up to 160 channels

A 16-channel temperature and voltage meter featuring **independent, galvanically isolated channels**, designed to synchronize thermal tracking with your electrochemical measurements.

It delivers reliable data acquisition for demanding applications such as **H2 fuel cells, electrolyzers and batteries including redox-flow**.

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From Lab to Industrial Scale



Massive Scalability

Scale from a single cell to a 1,280-channel stack without changing measurement ecosystem. Drive the entire Kolibrík CVM portfolio through one unified platform.



Hardware-Level Reliability

Stop false alarms caused by loose pins in testing harnesses. The system features immediate Open Sense Wire diagnostics to guarantee connection integrity.



Seamless Integration

Connect to your test bench your way: CVMs stream data over CAN with a ready-to-use DBC file, or serve a PLC via Modbus RTU – while the software keeps running.



Native Python Automation

Execute custom automation and advanced data processing. Utilize dedicated Python library to build scripts for your specific R&D requirements.



Instant Test Reports

Transform measured raw data into a polished PDF report in a second. Eliminate hours spent on manual formatting and accelerate your testing center's throughput.



Bottleneck Elimination

Eliminate bottlenecks in battery storage systems and high-power packs. The platform automatically identifies limiting cells and hidden self-discharge mechanisms.