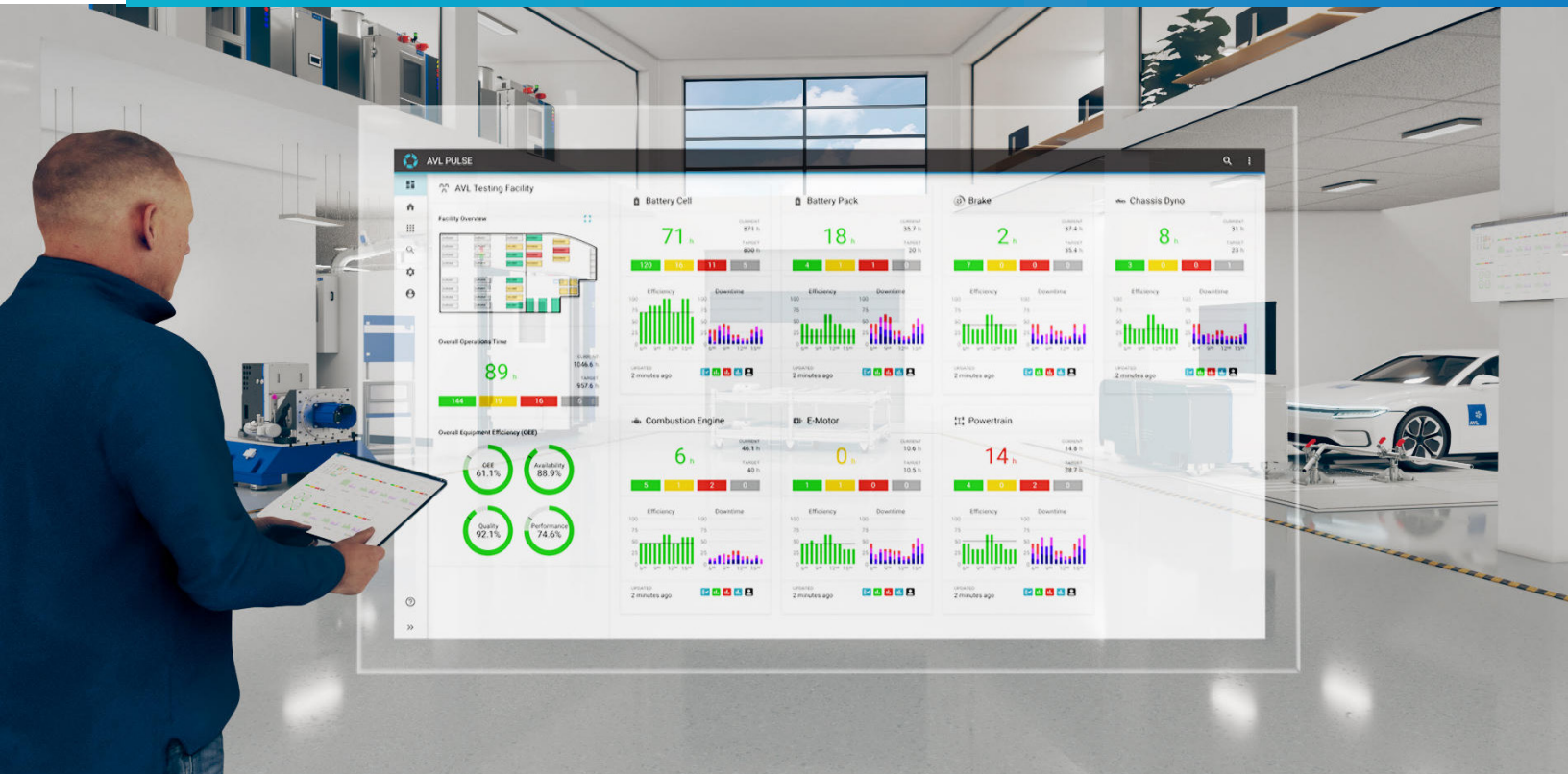




# AVL PULSE™ for Lab Monitoring

## Track the Heartbeat of Your Lab



AVL PULSE™ provides operations and engineering teams with actionable insights into your testing facility. It helps optimize lab operations by organizing a live overview of testing equipment and test cells. PULSE constructs a key performance indicator (KPI) dashboard and creates smart alerts for downtime and anomalies to help users make informed decisions quickly and effectively.

### MANAGE THE COMPLEXITY OF LAB OPERATIONS

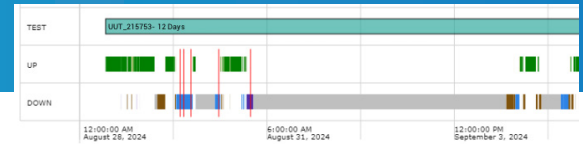
From operating a single test cell to supervising an entire laboratory, engineering and operation teams are faced with the monumental task of managing a complex system of devices, people, and processes. Reduce the guesswork and risk for human error by leveraging a state-of-the-art monitoring solution: AVL PULSE™. The software solution aggregates existing operational data and adapts to your organizational structure and processes. With PULSE, these teams can collect data points for actionable insights for your laboratory.

Harness the power of your data by using AVL PULSE to collect, visualize, and analyze your data in real-time from a PC or even your phone. With user-friendly features teams can identify anomalies, minimize downtime, and improve traceability. Ultimately, PULSE allows users to leverage operational data to improve the efficiency of their team and testing facility.



#### Status Cards

These dashboards reflect the status of the last 24 hours in your lab. You will see at one glance whether the lab is above or below the defined target. Test cells that are down are reported in a news ticker. A graph shows the cumulative delta between target and actual. The status card can show the status of the entire laboratory or a few testbeds.



#### Message log

| Type | Date             | Message                  |
|------|------------------|--------------------------|
| ⚠    | 9/8/24, 7:47 PM  | Not Scheduled - Override |
| ⚠    | 9/9/24, 8:00 AM  | Not Scheduled            |
| 🔵    | 9/9/24, 9:14 AM  | Checks and Services      |
| ⚠    | 9/9/24, 10:16 AM | CAMEO Engineer           |
| 🟢    | 9/9/24, 11:02 AM | Up : Manual Testing      |

#### Drilldown

View specific trends and patterns. Users can model and view an entire organization then drilldown from a specified lab to a single testbed.

## HOW OUR SOFTWARE WORKS

AVL PULSE collects real-time data from testbeds across your organization and presents it in a configurable user interface. As a user, you gain a clear overview of current operations, test execution statuses, and historical trends. By configuring reason code, you can define escalation paths for events, status changes, or anomalies. Stakeholders are informed in real-time when a test cell is not performing. Supervisors are alerted of unresolved issues to identify and address limitations related to personnel, processes, or equipment. Furthermore, data can be mined through public Application Programming Interfaces (API), such as Grafana and Power BI for deeper analysis and visualization.

## KEY FEATURES

### Status Cards

These dashboards reflect the status of the last 24 hours in your lab with a visualization of the target vs actual performance.

### Billing Report

Track activities and aggregate the associated costs which help your customers understand how costs are allocated.

### Test Article Tracking

Allows users to document activity and track test articles throughout the testing facility to understand where it is within the workflow.

### Smart Alerts

Utilize configurable notifications via text or email of downtime, anomalies, and customizable escalation path to keep stakeholders informed.

## AVL ADDED VALUE

- Scalable solution from small lab to full enterprises
- Visualization of the efficiency of your lab
- Customizable to fit your organization and testing facility's specific needs
- Stay informed of lab performance with hourly summary notifications including performance updates and reason codes
- Integrate with your existing test automation system or our systems including AVL iGEM, AVL PUMA, and AVL LYNX
- Monitor the status of your test equipment and building automation systems, HVAC systems, and lab temperature management systems through existing API

## CONTACT US

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