



# AVL Calibration Services

Quality and reliability ensured by ISO 17025 accreditation

## THE CHALLENGE

When it comes to evaluating measurement results, there is no room for interpretation. This makes calibrating your measurement instruments on a regular basis essential. The calibration method itself and the resulting factors, such as measurement uncertainty and the constant monitoring of applied measurement standards, are subject to strict quality requirements.

## THE SOLUTION

Laboratory management according to the ISO 17025 standard aims to secure the results of calibrations as well as the technical credibility and competence of laboratories. Calibration services according to ISO 17025, focus on the quality and the reliability of the applied calibration methods. These factors play a decisive role in ensuring the quality of measurement results and are therefore essential when it comes to developing and certifying drive trains and vehicles.

## THE ADDED VALUE

- Worldwide network of certified AVL repair centers
- Fixed price to each calibration service
- Calibration services and annual maintenance combo to keep your equipment at its best

## SOLUTION OVERVIEW – CALIBRATIONS ACCORDING TO ISO 17025

MEASUREMENT QUANTITY	F-FEMS (I/O Automation Systems)	Condensation Particle Counter (CPC)	AVL Particle Counter	PN PEMS IS / iS+ Z3 nm	AVL GAS PEMS iS / iS+, iX, HD	AVL Opacimeter	AVL Smokemeter 415 SE	Coriolis Mass Flow Sensors	PLUtron and PLU Flow Sensors	AVL Gas Dividers and AVL CFO Kits	AVL CVS and AVL PSS	AVL Emission Analyzers	AVL Smart Sampler	AVL List GmbH (Austria)	AVL Emission Test Systems (Germany)	AVL Test Systems Inc. (North America)
DC voltage	•													•		•
DC current	•													•		•
Particle number concentration EPC 23 nm				•										•		
Particle number concentration CPC 23 nm		•	•											•		•
Particle number concentration CPC 10 nm		•	•													•
Particle concentration reduction factor (PCRF)			•											•		•
Volatile particle removal efficiency (VPRE)			•											•		•
Gas concentration (CO, CO <sub>2</sub> , NO, NO <sub>2</sub> , C <sub>3</sub> H <sub>8</sub> , CH <sub>4</sub> )					•									•		
Opacity						•								•		•
Filter smoke number							•									•
Fuel mass flow								•						•		•
Fuel volume flow									•					•		•
Amount of substance (NO <sub>x</sub> , THC, CO, CO <sub>2</sub> , O <sub>2</sub> )											•					•
Gas flow										•	•				•	•
Dilution flow, probe flow, total flow												•				•
Temperature											•				•	
Pressure											•				•	

### HOW DOES IT WORK?

Each calibration service has a specified turnaround time that indicates the time between receiving the goods in our repair centers and the return shipment. For certain equipment, it is essential to schedule the service in advance to ensure that the turnaround time is kept. This applies to APCs, CPCs, PN-PEMS, GAS Dividers and AVL CFO Kits, PLU and PLUtron Sensors.

### THE SCOPE OF SUPPLY

Depending on your requirements, the scope of delivery ranges from a pure calibration to a so-called flat rate service, which covers necessary repairs additional to calibration and maintenance.

### WHAT DOES THE SERVICE COST?

Each calibration service has a fixed price. In the scope of our flat rate service, calibration, maintenance and necessary repair are covered.

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### FIND OUT MORE

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