

Challenge Measuring future propulsion systems

Fuel cells and alternative propulsion systems are seen as one of the key solutions in designing the mobility of tomorrow. These applications bring new challenges for measurement systems. Ultrasonic flow sensors are gaining momentum in the measurement of fluidic as well as gaseous media. The challenge is to design a measurement system that can be used universally on the test bed or in the vehicle with highest dynamics and robustness providing a maximum amount of information out of a single system by additional quantities measured.

Industry Partner



With 11,000 employees worldwide, AVL is the world's largest independent company for the development, simulation and testing of powertrain systems (hybrid, combustion engine, transmission, electric drive, batteries, fuel cell and control technology) for passenger cars, commercial vehicles, construction, large engines and their integration into the vehicle.



- ## Mission
- ▶ Concept and feasibility study for a flow sensor based on the ultrasonic principle
 - ▶ Evaluate existing solutions and outline one or more specification packages for a new measurement device
 - ▶ Search for Alternative applications outside the automotive industry for the use of ultrasonic measurement technology
 - ▶ Assess and elaborate possible business models for the use of flow measurement technology based on ultrasonic technology