

# PORTABLE EMISSION MEASUREMENT SYSTEM (PEMS)

The test systems are operated in cooperation between the Graz University of Technology and FVT mbH.

## ○ ON-BOARD MEASUREMENT SYSTEMS

Different systems are available for on-board test.

### ○ AVL M.O.V.E. PEMS

**Measured species:**  $\text{CO}_2$ ,  $\text{CO}$ ,  $\text{NO}_x$  ( $\text{NO}/\text{NO}_2$ ), THC (for HDV) inclusive particle number PN23

**Exhaust gas mass flow :** Exhaust Gas Mass Flow Meter (EFM)

**Data recording:** Data logger for recording of emission data and other cycle-relevant information such as speeds, temperatures, air pressure, humidity, GPS position and ECU data

**Measurement procedure at FVT certified according to ISO 17025**



### ○ IAG OFS MOBILE FTIR

**Measured species :** Acetylene, Acetaldehyde, 1,3 Butadiene, Butane, COS,  $\text{CH}_4$ ,  $\text{CO}_2$ ,  $\text{CO}$ , Ethane, Ethylene, Formaldehyde, Formic Acid,  $\text{H}_2\text{O}$ , Methanol,  $\text{N}_2\text{O}$ ,  $\text{NH}_3$ , NMHC,  $\text{NO}_x$  ( $\text{NO}/\text{NO}_2$ ), Propane, Propylene,  $\text{SO}_2$ , THC

**Exhaust gas mass flow :** Exhaust Gas Mass Flow Meter (EFM)

**Data recording:** Data logger for recording of emission data and other cycle-relevant information such as speeds, temperatures, air pressure, humidity, GPS position and ECU data



## ○ DTT PN MEASUREMENT SYSTEM

- Measured species:** PN10, PN23 if required,  
dilution and sampling system with/without heated catalytic stripper  
for solid or total particle number measurement
- Exhaust gas mass flow:** Exhaust Gas Mass Flow Meter (EFM)
- Data recording:** Data logger for recording of emission data and other cycle-relevant  
information such as speeds, temperatures, air pressure, humidity, GPS  
position and ECU data

## ○ MOBILE FUEL CONSUMPTION MEASUREMENT SYSTEM

- Measured species:** Fuel volume- and massflow (mobile KMA)

## CONTACT

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