

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: CO_2 , CO , NO_x (NO/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, CH_4 , CO_2 , CO , Ethane, Ethylene, Formaldehyde, Formic Acid, H_2O , Methanol, N_2O , NH_3 , NMHC, NO_x (NO/NO_2), Propane, Propylene, 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)

○ COSTS excl. VAT

(without costs for vehicle acquisition, mounting, toll and fuel)

1 day AVL M.O.V.E PEMS Tests PKW oder LDV	€ 1.900,-
1 day AVL M.O.V.E PEMS Tests PKW oder LDV nach ISO 17025	€ 2.700,-
1 day mobiles FTIR & DTT System Tests HDV	€ 3.200,-

CONTACT

Prof. Dr. Stefan HAUSBERGER	+43 (316) 873-30260	hausberger@ivt.tugraz.at
DI Lukas LANDL (LDV)	+43 (316) 873-30283	landl@ivt.tugraz.at
Dr. Konstantin WELLER (HDV)	+43 (316) 873-30284	weller@ivt.tugraz.at