



### AVL M.O.V.E

#### Mobile Exhaust Measurement Systems

- **GAS PEMS iS:** The AVL GAS PEMS iS is a compact, portable exhaust-gas analyzer developed for the determination of NO / NO<sub>2</sub>, CO / CO<sub>2</sub> and O<sub>2</sub> concentrations in the exhaust gas of diesel and gasoline engines
- **PN PEMS iS:** The PN PEMS iS has been developed for continuous measurement of particulate matter emissions [# / cm<sup>3</sup>] of solids particles under real driving conditions (RDE)



Source: AVL

#### Specifications:

- Sensor principle: Advanced Diffusion Charger
- Sample preparation: Catalytic Stripper
- Max. Sampling rate: 10Hz
- Dilution rate 10: 1



### CAMBUSTION DMS500

Differential mobility analyser (DMA)

#### Function:

- Particles are charged by an unipolar corona charger with relation to the particle surface
- In a classifying unit the electrically charged particles are exposed to a static electric field, which leads to deflection in direction of 22 ring electrodes
- The trajectory (impact location on a ring electrode) depends on the electrical mobility of the particles, based on which the aerodynamic diameter is estimated

#### Specifications:

- Range: 5 – 1.000nm (optional: 5 – 2.500nm)
- Max. sampling rate: 10Hz
- 38 size fractions



Source: CAMBUSTION