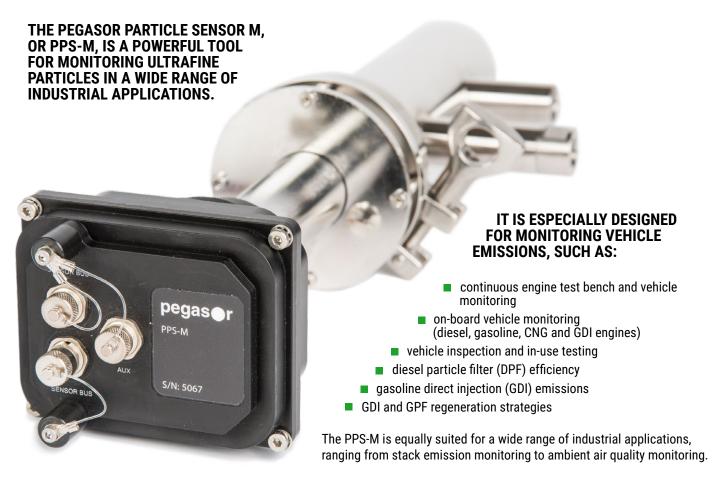


THE OPTIMAL TOOL FOR INDUSTRIAL MONITORING OF ULTRAFINE PARTICLES



WHAT MAKES THE PPS-M UNIQUE

IT HELPS YOU COMPLY WITH EMISSION REGULATIONS

The PPS-M measures both particle number and mass concentration. Both are critical components of emission regulations as well as particulate health effects.

2 IT ALLOWS YOU TO PINPOINT THE CAUSE OF EMISSIONS

Thanks to its 0.2 second response time, the PPS-M can indicate the actual moment when particle concentrations change, allowing you to deeply understand what causes the emissions.

3 IT PERFORMS IN ALL KINDS OF ENVIRON-MENTS

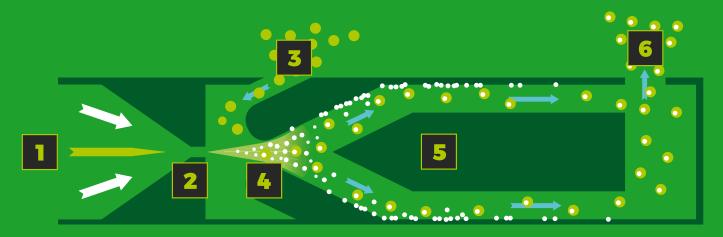
The wide dynamic range and high sensitivity of the PPS-M ensure you will be able to make reliable measurements no matter how high – or low – the particle concentration levels are in any given environment.

4 IT WILL GIVE YOU MORE RESULTS WITH LESS DOWNTIME

The smart flow-through design and sophisticated self-diagnostics guarantee you reliable long-term operation with very low maintenance and no need of frequent calibration.

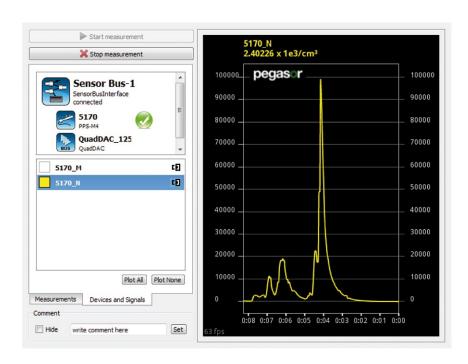
HOW DOES IT WORK?

Unlike conventional measurement methods based on collecting particles, the PPS-M measures the **electrical charge** carried by particles. This allows highly accurate real-time monitoring with low maintenance.



- A motive fluid (typically pure air) is fed into the sensor at high pressure
- 2 A corona discharge ionizes the air inflow
- Due to underpressure, particle-containing gas flows through the sample inlet into the sensor.
- The ionized air electrically charges particles at the ejector throat
- An adjustable ion trap removes from the gas flow any ions not attached to particles
- As the charged particles escape from the sensor, their electrical current is measured. This gives a direct, fast, real-time measurement of particle concentration, expressed as mass, number, or both.

OPERATE YOUR SENSOR WITH EASY-TO-USE SOFT-WARE



The **Pegasor Plotter** is a PC software tool where you can define your preferred settings, monitor and store your measurement data.

TECHNICAL SPECIFICATIONS

Minimum detectable particle size Software adjustable down to 10 nm

Particle concentration range PARTICLE NUMBER: 300 1/cm³ up to 1.3 * 10° 1/cm³ PARTICLE MASS: 1 µg/m³ - 290 mg/m³

Ambient temperature -20°C - +50°C

Sample temperature
Direct raw exhaust
sampling with heated line

System output USB Optional: Analog voltage, AK Protocol, CAN bus



Software and data collection Pegasor GUI for data analysis Mass & number concentration calculated

Data acquisition 100 Hz sample rate, SNR 100 dB

Length 40 cm

Weight (without accessories) 3.3 kg

Sample inlet G1/4"

Sample out **G3/8**"

Clean air/nitrogen supply 10 lpm @ 0.15 MPa

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