PEGASOR PARTICLE SENSOR PEGASOR



地址:深圳市龙岗区南湾街道吉厦社区沙平北路 111 号 6008 王经理 15813841944 (微信同号) QQ:422612157 电话:0755-28917660 邮箱:jkang66@163.com 网址:http://www.3000buy.com

THE OPTIMAL TOOL FOR INDUSTRIAL MONITORING OF ULTRAFINE PARTICLES

THE PEGASOR PARTICLE SENSOR M, OR PPS-M, IS A POWERFUL TOOL FOR MONITORING ULTRAFINE PARTICLES IN A WIDE RANGE OF INDUSTRIAL APPLICATIONS.

IT IS ESPECIALLY DESIGNED FOR MONITORING VEHICLE EMISSIONS, SUCH AS:

 continuous engine test bench and vehicle monitoring

- on-board vehicle monitoring (diesel, gasoline, CNG and GDI engines)
- vehicle inspection and in-use testing
- diesel particle filter (DPF) efficiency
- gasoline direct injection (GDI) emissions
- GDI and GPF regeneration strategies

The PPS-M is equally suited for a wide range of industrial applications, ranging from stack emission monitoring to ambient air quality monitoring.

WHAT MAKES THE PPS-M UNIQUE

pegasor

PPS-M

S/N: 5067

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
 - A corona discharge ionizes the air inflow

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- Due to underpressure, particle-containing gas flows through the sample inlet into the sensor.
- The ionized air electrically charges particles at the ejector throat
- 5
- An adjustable ion trap removes from the gas flow any ions not attached to particles
- 6

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



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



深圳市净康科技有限公司

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Minimum detectable particle size Software adjustable down to 10 nm

Particle concentration range PARTICLE NUMBER: 300 1/cm³ up to 1.3 * 10⁹ 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