

parSYNC[®]

Particle Number

3DATX introduces the newcomer to the parSYNC[®] Series Family – parSYNC[®] PN (Particle Number)



Recent developments by the European Union have demanded increasingly accurate and robust equipment, capable of providing nanoparticle measurements. Specifically, the EU has focused on the benefits of a Particle Count output based on a Portable Emissions Measurement System (PEMS) platform.

A PEMS platform approach for Particle Number is a logical next step; the use of PEMS have become more standardized and relied-upon by governmental agencies over that of traditional laboratory testing. PEMS have a significant advantage in that they are designed to measure emissions during actual on-road use of all internal combustion engines – petrol, diesel, or LNG/CNG.

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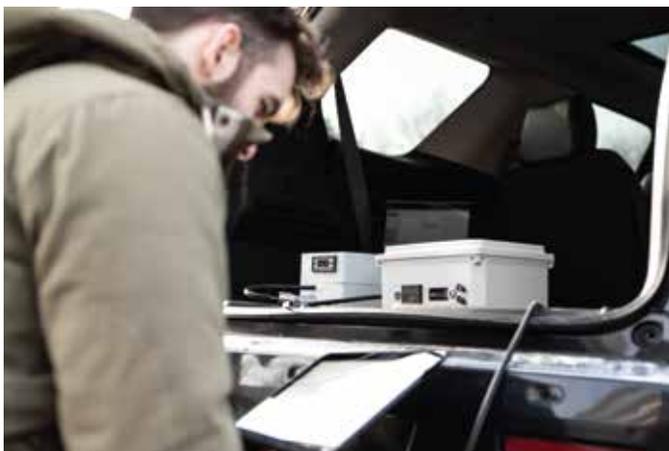
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TECHNICAL INFORMATION

DETAILS	DATA
Particle Size	10 to 10,000 nm = 0.01 to 10 μ m
Optimal Particle Size Range Ionization Sensor Opacity Sensor Scattering Sensor	Ultra-fine: 10 to 250 nm / peak@ <80 nm Medium: 80 to 7,000 nm / peak@ ~800 nm Coarse: 250 to 10,000 nm / peak@ ~2,500 nm
Power Supply	12V Lithium Ion Polymer Battery
Power Consumption	1.0 amps typically, 2.5 amps peak@12VDC
Dimensions	12cm x 22cm x 13cm
Weight	3.7 kg

The 3DATX patented multi-plex particle sensor system - parSYNC[®] PN - provides the ability to capture multiple, dissimilar “images” of particles using the parSYNC[®]PN LabVIEW[®]-based software to provide multiple outputs: standard Opacity, Scattering and Ionization, in addition to surrogate outputs for Particle Number (PN), and Particulate Mass (PM).

The advantage is that all these data can be re-examined and reprocessed many months – or years – after a test has been completed; in effect, providing a ‘future-proofing’ advantage which is superior to all other particle testing devices on today’s market.



3DATX parSYNC[®] “integrated” PEMS (iPEMS) provide unique, hot-swap cartridges that deliver emissions measurements – all in one compact 3.7kg unit (including batteries).

The parSYNC[®] Series of devices are powered by a common software interface, which provides a flexible and adaptable solution to each unique transportation challenge presented.

We Make Transportation Decisions Easy



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