

parSYNC[®] CORE

Particulate Synchronization

Provides portable, quick and accurate on-road/non-road measurement of particulates. Designed to be a low maintenance, highly reliable, and moderately priced alternative.



parSYNC[®] CORE - a breakthrough PEMS device - designed as a superior and more flexible alternative to the process of measuring and monitoring Particulate Matter/Number (PM/PN). The 3DATX parSYNC[®] device is the first integrated portable emissions measurement system (iPEMS) for the transportation industry - representing significant cost savings for the fleet manager. parSYNC[®] utilizes a miniaturized multi-chamber and replaceable (patents pending) "Sensor Cartridge" designed to obtain real-time PM/PN performance data from diesel engines either in a dedicated "pass/fail" lane testing configuration or in a field unit PEMS/PAMS approach.

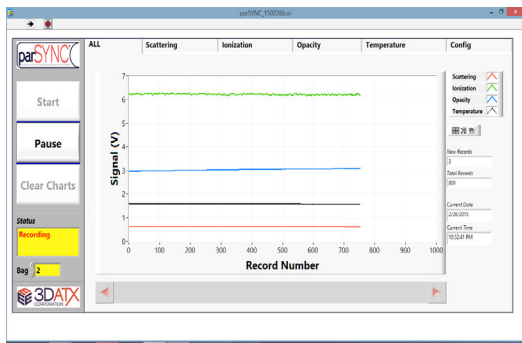


1.844.303.3289

3DX-CORE-V1

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TECHNICAL INFORMATION



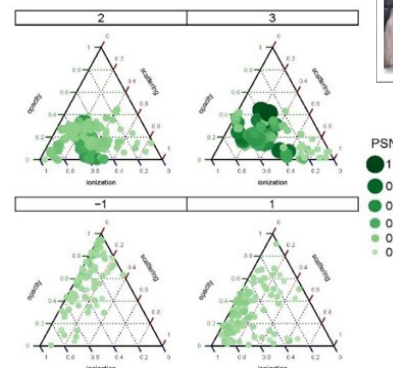
Features and benefits

- Small-size/Light weight = Easily transported to job site
- Replaceable Sensor Cartridge = Eliminates “down time”
- Low power consumption = internal battery, 8+ hrs of testing
- Rugged, watertight, and weatherproof construction
- Fully automated LabVIEW®-based software
- Wireless/Bluetooth/Duplexing capabilities
- Simple to maintain and operate

Technical characteristics

Details	Data
Dimensions	27cm h x 22cm w x 13cm d
Weight	3.3 kg
Power supply	12 V Lithium Ion Battery
Continuous Use	8+ hours

The integrated design makes the parSYNC® a superior choice for multiple emission evaluation scenarios.



The parSYNC® measures and transmits absolute response of three particulate sensors. The sensors are sensitive to different size fractions:

- ionization – fine/ultra-fine particulate (up to 0.4-0.5 microns),
- scattering – intermediate particulate groups (0.3 microns to 2.5 microns)
- opacity – coarse/large particulate groups (approximately 2.5 – 10+ microns)

Multi-plex post-processing maps the response of the sensors to provide size relationship data, as well as surrogate Particle Count output.

WE MAKE TRANSPORTATION DECISIONS EASY

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