

parSYNC[®] RDE

Real Driving Emissions

Vehicles simply do not perform the same on the road as they do in the laboratory.



3DATX is the only company that manufactures a truly portable – and accurate – “integrated” RDE PEMS, capable of being carried to a jobsite by only one individual – in one trip.

3DATX parSYNC[®] “integrated” PEMS (iPEMS) provide unique, hot-swap cartridges that deliver mass emissions for: CO, CO₂, NO_x, NO, NO₂, particulate matter (PM) and particle number (PN) – all in one compact 3.7kg unit (including batteries). This provides a significant advantage when performing a large number of RDE tests through the day.



1.844.303.3289

3DX-RDE-V1

www.3DATX.com
501 John James Audubon, Ste 200
East Amherst | NY 14228

TECHNICAL INFORMATION

parSYNC[®] Series Comparison

Specification	CORE	PLUS	RDE
Small Size and Lightweight	✓	✓	✓
Rugged & Weatherproof	✓	✓	✓
Low power consumption	✓	✓	✓
LabVIEW [®] -based software	✓	✓	✓
Wireless/Bluetooth Capabilities	✓	✓	✓
Easy to Maintain & Operate	✓	✓	✓
Replaceable PM/PN Sensor Cartridge	✓	✓	✓
Replaceable GasMOD [™] Sensor Cartridge		✓	✓
Real Driving Emissions (RDE) compatible			✓

CO₂ Measurement

Sensing Method

- Non dispersive infrared (NDIR) absorption
- Patented Gold plated optics
- Patented Solid state source and detector

Sample Method: Diffusion

- Measurement Range: 0-20%
- Accuracy: ± 70 ppm, $\pm 5\%$ of reading
- Non Linearity: $< 1\%$ of FS
- Pressure Dependence: 0.13% of reading per mm Hg

NO_x Measurement

Operating Principle: 3-electrode electro-chemical

- Measurement Range: 0-5,000 ppm NO
- Filter: To remove effect of SO₂ in gas stream
- Sensitivity: 0.05 ± 0.01 $\mu\text{A/ppm}$

CO Measurement

Sample Method:

- Measurement Range:
- Accuracy:
- Non Linearity:



WE MAKE TRANSPORTATION DECISIONS EASY

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