

par**SYNC**[®]
Real Driving Emissions

RDE

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) provides 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 throughout the day.

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CORPORATION

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TECHNICAL INFORMATION

parSYNC® Series Comparison

Specification	PTI	RDE	PLUS
Small Size and Lightweight	✓	✓	✓
Rugged & Weatherproof	✓	✓	✓
Low Power Consumption	✓	✓	✓
Wireless/Bluetooth Capabilities	✓	✓	✓
Easy to Maintain & Operate	✓	✓	✓
Replaceable PM/PN Sensor Cartridge*	✓	✓	✓
Replaceable GasMOD™ Sensor Cartridge*	✓	✓	✓
Real Driving Emissions (RDE) Compatible		✓	✓
Customizable			✓
Network Configured	✓		

*PTI unit includes choice of 1 PM/PN sensor cartridge OR 1 GasMOD™ sensor cartridge OR Both

GasMOD™

Nitric Oxide (NO) – 3 Electrode Electro-chemical

- Linear Measurement Range: 0-5000 ppm NO
- Sensitivity: 0.05 ± 0.01 µA/ppm
- Resolution: 1-2 ppm
- Operating Temperature: -20°C to 50°C
- Repeatability: 2% of signal

Nitrogen Dioxide (NO₂) – 3 Electrode Electro-chemical

- Linear Measurement Range: 0-300 ppm
- Resolution: 0.1 ppm
- Operating Temperature: -20°C to 50°C
- Repeatability: 2% of signal

Non-Dispersive Infrared Spectrometer (NDIR) – CO₂, CO

- Sample Method: Diffusion
- Solid-State Detector
- Operating Temperature: 0°C to 50°C

Carbon Dioxide (CO₂)

- Measurement Range: 0-20%
- Accuracy: ±0.3% absolute or ±3% relative
- Repeatability: ± 0.1% absolute or ± 2% relative

Carbon Monoxide (CO)

- Measurement Range: 0-15%
- Accuracy: ± 0.02% absolute or ± 3% relative
- Repeatability: ± 0.02% absolute or ± 2% relative

**We Make Transportation
Decisions Easy**

