parSYNC® PTI

Periodic Technical Inspection

Cars, trucks, and buses are a leading cause of air pollutants, and – although newer vehicles are equipped with pollution control systems, they need to be monitored and maintained to continue functioning properly.

It is a challenge for inspection personnel and vehicle operators to identify problems without modern emissions testing capabilities. Therefore, 3DATX Corporation has developed parSYNC®PTI (Periodic Testing Inspection) "integrated" PEMS (iPEMS) – designed to perfectly complement most global PTI programs.

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TECHNICAL INFORMATION

Technical Characteristics

Details	Data
Dimensions	27cm x 22cm x 13cm
Weight	3.7 kg
Power supply	12 V Lithium Ion Battery
Continuous Use	8+ hours

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

3DATX parSYNC®PTI provides unique, hot-swap cartridges that deliver emissions measurement for: CO, CO2, NOx, 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 large numbers of off-site PTI tests throughout the day.

The 3DATX parSYNC®PTI utilizes a data convergence algorithm; a singular, triangulated cut-point that helps to minimize false-failures, increasing the odds that failed vehicles truly have a malfunction – whose repair would result in emissions reductions. The parSYNC®PTI off-line measurement software provides a highly flexible toolset: real-time feedback, which allows the inspection facility to quickly gauge vehicle performance and decide if that vehicle is a clean pass, definite fail, or a borderline case. The inspection facility can decide if they want to post-process and report using the more accurate off-line calibration methods, rerun the test, or run further diagnostics.

We Make Transportation Decisions Easy

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