

mini**PEMS**TM

Portable Pollution Emissions Monitoring

For applications in:

- Cars
- Trucks
- Motorcycles
- Boats
- Off-road
- Trains
- and more!



Measure and Log:

- NOx
- O₂
- Lambda
- NH₃
- Exhaust Temp
- GPS
- and more!

ECM's miniPEMSTM is an inexpensive, but versatile, instrumentation package for the auditing of combustion engine emissions. A key feature of miniPEMSTM is the use of ceramic exhaust emissions sensors, a technology pioneered by ECM. Ceramic exhaust sensors are smaller, more rugged, and faster responding than classical gas analyzers.

miniPEMSTM is available in base and expanded configurations. The base configuration measures GPS positioning, NOx, O₂, Lambda, and two temperatures. Data is logged onto removable memory cards. Expanded configurations add vehicle data stream information, measurement of other emissions gases, voltages, currents, temperatures, pressures, frequencies, and duty cycles. This expandability supports deeper analysis of suspect systems.

System setup, calibration, data uploading, and real-time monitoring are handled by ECM's Configuration Tool software. Data files can be exported to formats for third-party software.

miniPEMSTM comes in a rugged, weather-proof, magnetic enclosure that can easily fit on motorcycles and larger vehicles. A lithium battery provides hours of use independent of the vehicle's electrical system.

At a fraction of the cost of conventional pollution emissions monitoring systems, yet vastly more compact and rugged, ECM's miniPEMSTM meets the needs of manufacturer and legislative agencies for the monitoring of real-world emissions.