On-Vehicle Monitors
Used in Retrofit Applications

Manufacturers of Emission Controls Association

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On-Vehicle Monitors: Examples of Important Features

• Back Pressure and Exhaust Temperature monitor and alarm system
  – 2 Back Pressure Alarms
  – Up to 2 Temperature alarms (2 Temperature inputs)
  – 4 system alarms
• 2 alarm outputs
  – Can be interfaced with vehicle ECU (if equipped) to light Check/Stop Engine lamps or de-rate engine
  – Connect to a Remote Display Unit or drive a buzzer
• Datalogging to allow easy alarm diagnosis
  – Up to 2 years continuous data can be stored
On-Vehicle Monitors: Examples of Important Features

- Environmentally resistant
  - Durable aluminum enclosure allows installation on vehicle frame, inside engine space, or inside cab
  - Common pigtailed allow easy connection to wiring harness
- Easy to use software
  - User Friendly “Push Button” programming
  - Software compatible with Windows 95 and later PCs
  - Generally pre-programmed by the retrofit technology supplier

On-Vehicle Monitors Have Extensive Experience Base

- Over 30,000 installed internationally
  - On-road vehicles: Transit, municipal, over the road
  - Off-road vehicles: Scrapers, dozers, front end loaders
  - Test cell: Engine dynamometers
  - Industrial: Fork trucks, skid steers
Example On-Vehicle Monitor System

Example Software

- User Friendly Software tells technician what alarm is/was active

- True indicates an alarm.
Example Software

• Real Time readings allow user to see actual second by second back pressure and temperature while the engine is running

Example Software

• User configurable alarm settings
• Password protection on critical parameters available
• Easily updated firmware
• Creates graphs of recorded data
• Creates a text record of recorded data
Example Data Output

725 days of continuous back pressure data

Photos of Installed Monitors

Construction Equipment

Inside Cab

In Engine Space

In Engine Space