# On-Vehicle Monitors Used in Retrofit Applications

Manufacturers of Emission Controls Association

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MECA

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### On-Vehicle Monitors: Examples of Important Features

#### Environmentally resistant

 Durable aluminum enclosure allows installation on vehicle frame, inside engine space, or inside cab

 Common pigtails 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

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- 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 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

teal-Time ¥alues	×
Thu Jul 21 14:50:25 2005	
Inlet Temperature	22.000000 °C
Outlet Temperature:	r.
Pressure:	0.000000 "Hg
Inlet Over-Temp. Alarm	FALSE
Outlet Over-Temp, Alarm	
Over-Pressure Warning	FALSE
Over-Pressure Alarm	FALSE
Inlet Thermocouple Fail Alarm	FALSE
Outlet Thermocouple Fail Alar	m
No Change in Pressure Alarm	FALSE
Negative Pressure Alarm	FALSE
Pause	
Retrieving Real-Time Data	
, 	
	ancel

## **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

CRT dis Ruin Program     Precura Serior Fail     Logging Strategy       Unit Name     Precura Serior Fail     Logging Strategy       Unit Type     [97:62]     Precura Serior Fail     Logging Strategy       Uitel Type     [97:62]     Precura Serior Fail     Dopole 2 (Precura Serior Fail       Dopole Forcin CRT dm     Dopole Asseria     Precura Serior Fail     Dopole Asseria       State Base Trace Dipply     Series     Series     C     Hysteesis       State Base Trace Dipply     Series     C     Logend Asseria       Charge Urit Name     Lawerh Polter     Logend Asseria     Precura Series       Charge All Reports     Destee Asseria     Precura Series     Precura Series	) 📽 🖬 🐰 🕪 🛍 🖓 💡	
	Comunications CR1 dn Seale Number (020409-000) Unit Typer (51702) Disconnent Upboad Program To CR1 dm Dowrhoad Dragram From CR1 dm Dowrhoad Data Dear Memory Gest Statu: State Head Trace Display Seit Tene Change Unit Name Laurach Politer Ceade AN Reports	CR1dm Rung Personan Sama Faal Logging Starkege Over Temp Dover Heat Cr2 Part Facebook Alam P Logdar Marmin P Logdar Marmin Output Function: C ON Oxford Durgs Alam Output Function: C ON Oxford Durgs Alam C LATCHED DN Upon Alam Assert Alam Above 9000 C Hysterestin 25 C Upon Over Temperature, askend alam for 100 seconds. JA writing of 1 adds no time elements)



