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ClearSkies News



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Latest Update on PEMS Regulations in Europe: Real Driving Emissions - Light Duty Vehicles (RDE-LDV)

The RDE-LDV meeting held in Brussels on 6/28/2012 clarified that PEMS testing will definitely have a role to play when assessing vehicle emission performance in future. The European Commission is considering two candidate procedures which are currently being evaluated in more detail: PEMS and Random Cycle. It is already confirmed that PEMS testing will be the base procedure complementing the NEDC cycle.

Three options were presented which address future testing scenarios at type approval, In-Service Conformity (ISC) and Surveillance Testing conducted by the Member States of the European Community.

	Type Approval	In-Service Conformity	Surveillance Testing
Option 1:	PEMS	PEMS	PEMS
Option 2:	PEMS/Random Cycle	PEMS	PEMS
Option 3:	PEMS/Random Cycle	PEMS/Random Cycle	PEMS

The above matrix confirms that PEMS will become a mandatory element when checking emission performance. Consequently, it is anticipated that this roadmap will cause a significant change in the way vehicles, engines and exhaust aftertreatment technologies will be designed and calibrated to comply with future requirements. A further outlook addressed the need for increased surveillance monitoring from the side of the Member States.



ECOSTAR in a LDV

Sensors, Inc. is excited about this development: Our new, modular generation of PEMS equipment, the ECOSTAR, meets all regulatory specifications and is targeted towards light duty vehicle applications, thereby making it the ideal tool for compliance monitoring and for vehicle and engine development.

WhatCar? and Emissions Analytics Use Sensors, Inc.'s SEMTECH-DS for TrueMPG

Using SEMTECH-DS, Sensors, Inc.'s laboratory-grade emissions measurement system, Emissions Analytics has produced real-world fuel economy and emissions figures for dozens of leading car models. The detailed emissions data captured under normal driving conditions have been processed using sophisticated data analysis tools aimed at improving information for users of light-duty passenger vehicles. The result is an innovative comparison of real, on-road performance with official fuel economy figures generated under laboratory conditions. Emissions Analytics has already tested over 130 vehicles and is rapidly rolling out coverage of other UK vehicle models.



Emissions Analytics' engineers vary the vehicle tests to take into account driver style, congestion and road type combinations in order to understand performance and make fair comparisons. Although performances vary significantly between models, the average shortfall to official MPG figures is around 17%.

Emissions Analytics' data have been published by What Car?, the UK's market-leading motoring magazine and website. This is the first time that Emissions Analytics' unique data has been taken to market, in the form of True MPG. The project has been sponsored by the international retailer Tesco.

Consumers can see for themselves how a car would perform in their hands. What Car? has created an online tool which produces a customized [True MPG](#) based on a description of an individual driving style.

◇ [Visit Emissions Analytics site](#)

◇ [Visit WhatCar?'s TrueMPG site](#)

NAPRO Signs Distribution Agreement with Sensors, Inc.

Sensors, Inc. is pleased to announce that NAPRO Electronics Industrial Ltd. has signed a distribution agreement with Sensors, and will be distributing the SEMTECH product line in South America.

NAPRO has been a customer for Sensors' Inspection and Maintenance solutions for over 15 years. They have provided test cell solutions for Latin American vehicle manufacturers for over two decades, including a recent "shed" solution for Volkswagen. Under the new agreement, NAPRO will now also distribute Sensors' PEMS equipment.

"We are pleased to announce that we have expanded distribution of the SEMTECH product line to include Latin America, by reaching an agreement with NAPRO Eletronica Industriale, Ltda. NAPRO has been involved with sales and service of test cell instrumentation for over 20 years, and is clearly recognized as a superb provider," Rob Wilson, VP of Sales and Marketing stated. "This step marks a major move into the Latin

American market, which offers a significant opportunity for the SEMTECH Product Line, including our latest generation of the products, ECOSTAR and LASAR."

◇ [Visit NAPRO's site](#)



[SEMTECH User Network \(SUN\) Conference](#)

September 18 - 19, 2012
Ann Arbor, Michigan USA

This annual conference brings regulatory agencies and engine manufacturers together to discuss the latest developments in emissions regulations and testing.

[Directions in Engine Efficiency and Emissions Research](#)

October 16-19, 2012
Dearborn, Michigan USA

[Automotive Testing Expo](#)

October 23-25, 2012
Novi, Michigan USA



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