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Sensors, Inc. Introduces SEMTECH PM2

SEMTECH PM2 was recently introduced in 2017, providing SEMTECH users with a Particulate Mass measurement package that is significantly reduced in size, weight and power required for operation from its predecessors, ECOSTAR MPS/CPM/PFS and SEMTECH PPMD. The SEMTECH PM2 is the latest optional device to enhance the capability and adaptability of the base SEMTECH LDV system, the fifth generation portable emissions measurement systems (PEMS) from Sensors, Inc. The device is also compatible with ECOSTAR Plus users.

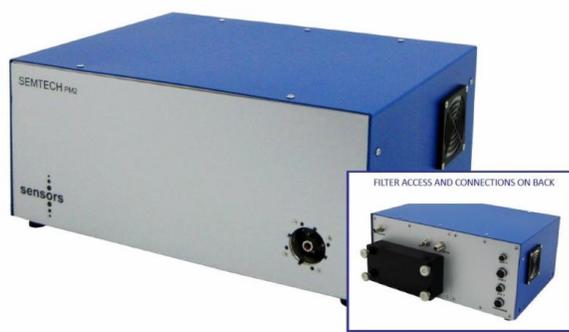
The SEMTECH PM2 combines real-time and cumulative PM mass measurements. The real-time PM mass measurement is based on an ion mobility technique while the cumulative PM mass measurement is based on a gravimetric method using industry standard 47mm filter cartridges. The combination of the two techniques allow SEMTECH PM2 to meet US EPA's 40CFR Part 1065 requirements for Heavy Duty

In-Use (HDIU) compliance testing applications as an alternative method. The SEMTECH PM2 is designed to measure particulate matter either as a stand-alone device, or together with the SEMTECH ECOSTAR or SEMTECH LDV products lines.

For real-time PM mass measurement, a small fraction of the homogeneous diluted sample is passed through a PEGASOR PPS-M electrical aerosol transducer, in which particulate matter is charged. As the charged particles exit the detection zone, their charge is measured with a sensitive electrometer. The electrometer signal is then converted to real-time PM mass concentration using a transfer function.

For cumulative PM mass measurement, the homogeneous diluted sample is directed through one of three filters. The pre- and post-filter weights provide cumulative PM mass, which is used to scale the real-time mass concentration and obtain accurate, time resolved PM mass measurement.

SEMTECH users will find the SEMTECH PM2 to be a significant upgrade its earlier PM measurement generations.



Please contact Mr. Oliver Franken, MD of Sensors Europe GmbH (+49 2104 14188-88, oliver.franken@sensors-europe.eu) or Mr. Rob Wilson, VP of Sales & Marketing, Sensors, Inc. (+1 734 295 9695, rwilson@sensors-inc.com) for further information.

[Learn more about the SEMTECH PM2](#)

Sensors, Inc. Receives TUV Certification

Sensors, Inc. is pleased to announce that we have received our RDE Package 2 post processing software (SENSOR Tech-CT LDV Package 2 Build 17) certification from TUV Nord. To achieve this certification, comparisons were made between the latest EMROAD and CLEAR programs as well as TUV's own proprietary tool. TUV concluded that the SENSOR Tech-CT results matched well with these other programs on RDE test files from both gasoline and diesel powered vehicles. In addition to weighted emissions results, trip dynamics and trip validity calculations were compared and validated as well. A complete report is available together with the TUV certificate upon request.

Packages one and two, which have been enacted, are described as follows:

1. Voted on in May 2015 and published in the Official Journal of

the European Union in March 2016, the first package includes the basic features of the RDE test,

such as characterization of the RDE trip, the vehicle family concept, description of data evaluation tools, technical requirement of the PEMS equipment, and reporting obligations.

2. The second package, voted on in October 2015 and published in the Official Journal of the European Union in April 2016, includes more political outcomes, such as the determination of the conformity factors and the timetable for RDE implementation. Technical features include the introduction of dynamic boundary conditions and a limit for altitude gain together with a detailed approach to calculating it.

Sensors, Inc. had earlier received TUV certification for its SEMTECH LDV portable emissions measurement system as meeting all requirements for gas analyzers, sensors, and instruments for exhaust flow measurement of the guidelines and regulations as described in Commission Regulation (EU) 2016-427 of 10 March 2016, implementing and amending Regulation (EC) 692/2008.

Additional post processing packages (Packages 3 and 4) are in the pipeline, and as they are validated and promulgated, Sensors, Inc. will promptly move to certify those packages as well.

3. Voted on in December 2016, the third package includes the introduction of particulate number measurement along with a conformity factor of 1.5. The package also features specific legislative provisions for hybrids and a procedure to include cold starts and regeneration events in the RDE test.



4. The fourth package, still in the preliminary stages, is expected to cover in-service

compliance and surveillance tests along with specific provisions for light commercial vehicles (vans).

For further information on these hardware and software certifications and technical reports, [click here](#).

Additional Worldwide Staff

Xinping Guo, Ph.D has joined Sensors, Inc. in Saline, MI as Software Manager. Xinping brings 20+ years of software engineering experience with a lengthy list of professional skills. Most recently he was a Principal Software Engineer with Oracle in Raleigh-Durham, NC. and spent over 15 years working in Ottawa, Canada. Xinping and his team of software engineers are responsible for the support and development of Sensors' software and platforms worldwide.

Beginning in July 2017, Olaf Brüggemann will be joining Sensors Europe's Service team in Germany. With increasing demand and a growing number of Portable Emissions Measurement Systems (PEMS) in the field, additional staff was required. Olaf is a Service Technician experienced in diagnostic, repair and calibration of measurement instruments. He will also add expertise in documentation and quality control to the European team. With the addition of Olaf, we will be better positioned to provide quality repair in a timely manner and meet your service requirements.

Sensors is renowned for its worldwide service and support, with additional locations in Saline, MI and Hong Kong.

Upcoming Events



October 24-26, 2017

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