

HORIBA shows wide range of new test equipment at Testing Expo 2010

Oberursel (Taunus), Germany, 22.06.2010. At this year's Testing Expo, HORIBA is focusing on key technologies that enhance a wide range of test facilities. With the Virtual Battery system and the MEXA-1400QL-NX emission measurement system, HORIBA presents two products which meet the requirements for testing vehicles with environmentally friendly powertrains with very low emissions. Based on Quantum Cascade Laser (QCL) technology, the MEXA-1400QL-NX analyser achieves a very low detection limit of NO, NO₂, NH₃ and N₂O with a quick response time. HORIBA's advanced Virtual Battery solution offers the ability to truly replicate in-vehicle conditions, as well as the environmental conditions necessary to predict actual battery behaviour. In the domains of engine and brake testing, HORIBA also presents the new TITAN and GIANT compact systems at booth 1512 in Hall 1. Both systems are designed to be a cost-effective, yet powerful upgrade path and will enhance the capabilities and use of existing test stands.

In the domain of emission measurement, HORIBA introduces the completely new MEXA-1400QL-NX system. This analyser system uses four Quantum Cascade Lasers (QCL) to analyse the main nitrogen components in exhaust gas and enables engineers to evaluate the performance of after-treatment devices. Compared to other exhaust emission measurement technologies, QCL is able to analyse ultra-low concentrations of NO, N₂O, NO₂ and NH₃ accurately with virtually no interference from co-existing gases. Furthermore, the QL-NX shows excellent measuring performance over a very wide range. The heated sample handling system of the QL-NX provides a speed response for NH₃ measurement that is well within that specified for the EURO VI regulations. This allows the QL-NX to be used in a wide variety of applications from engine calibration to the development of after-treatment devices for complex powertrains operating on alternative fuels.

HORIBA presents newly developed Virtual Battery system

In the field of battery, hybrid and electric motor testing, HORIBA presents the newly developed Virtual Battery system, which enables vehicle, drive train and battery developers to simulate the in-vehicle conditions of the battery. Parameters such as stress, battery age, battery pack parameters and driving cycles can be varied to simulate actual battery behaviour. The Virtual Battery solution is available in five specialised, customizable battery models. Furthermore, a powerful model generator feature allows the creation of unique battery profiles, thus ensuring maximum testing flexibility. HORIBA offers the system in two dynamic forms. Test facilities that already include battery cycling systems can add Virtual Battery on top of their existing hardware and software and upgrade to advanced battery emulation, while hybrid, electric vehicle and battery developers seeking a comprehensive approach can be provided with a complete solution with optimum hardware, software and safety features.

HORIBA's TITAN Compact System for Engine Testing

As a representative of the engine testing segment, HORIBA is exhibiting the TITAN Compact System for engine testing, which is based on the proven combination of STARS Engine Automation and the SPARC Engine Controller. This powerful and flexible combination is able to enhance the capabilities and application of existing test stands, especially when used together with the class-leading DYNAS₃ asynchronous and synchronous machines. With a HORIBA upgrade, customers are able to enhance the range and type of testing that can be performed, all from a simple-to-use modern user interface.

New Electrical Brake Actuator

The GIANT Compact Brake Test System is a very close relative of the TITAN system and uses STARS Brake and SPARC Brake at its core. This newly available upgrade package is able to modernise older Schenck and HORIBA test systems and updates the user environment to the very latest technology. In addition to this new package, HORIBA is also presenting the new Electrical Brake Actuator, the HORIBA HBA 2100. In conjunction with the SPARC Brake controller, this combination can deliver

superior performance compared to older systems, bringing them up to the latest stringent standards such as GM TIP.

About HORIBA

Headquartered in Kyoto, Japan, the HORIBA Group of worldwide companies provides an extensive array of instruments and systems for applications ranging from automotive R&D, process and environmental monitoring, in-vitro medical diagnostics, semiconductor manufacturing and metrology, to a broad range of scientific R&D and quality control measurements. The Internet address for HORIBA is <http://www.horiba.com>.

HORIBA Automotive Test Systems

Part of the HORIBA Group, HORIBA Automotive Test Systems has developed global leadership in the exhaust gas analysis, powertrain research and development and various certification test system fields. HORIBA ATS is able to provide total solutions to its customers, with full turnkey capability for driveline, engine, powertrain and vehicle tests. HORIBA ATS serves manufacturers and suppliers in every industry that utilises internal combustion, turbine engines, including automotive, heavy-duty/off road, lawn and garden, marine, aerospace, locomotive and recreational and utility vehicles.

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