

Climatic Test Measurement System

Application Note #28



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1

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The sheer amount of new car designs and the time they spend in development are stunning. But to bring new cars to market at ever-shorter intervals, new and innovative test and measurement philosophies are needed.

Climatic car tests are usually differentiated between climate test-cell measurements and road-based measurements—a distinction which often leads to problems—such as incompatible measurement data produced by different systems and long set-up times between road and facility-based measurements. In addition, mastery of different systems is necessary. These problems have to be solved to boost the efficiency of tests.

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EXCEL databases are the used for the system configuration



Centralized and decentralized measurement systems can be combined, and a driver display rather than a PC provides the necessary information.

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2

Together with FORD, imc has developed a special climatic measurement concept. It gives due consideration to all requirements of both road-based and climatic wind tunnel measurements. The imc CRONOS-PL measurement system and imc CANSAS serve as its base, together with a turn-key software solution.



CRONOS PL-8 with 128 temperature channels

The compact and durable system provides a practically infinite number of analog signal inputs (temperature, voltages, etc.) and is equipped with a synchronized CAN bus interface. A special hardware design allows operation in an ambient temperature range between -40°C and 70°C. The PC-independent systems store their data in a 4 GByte flash card and a "Personal Analyzer" can be used for statistics, math or analytical online calculations. Therefore, the results are instantly available right after, or even during the measurement. A PC or data server connection uses the built-in Ethernet interface or WLAN technology.

All further analysis and documentation can be performed with the help of imc FAMOS, imc's offline analysis tool.