

Exhaust System Test Bench

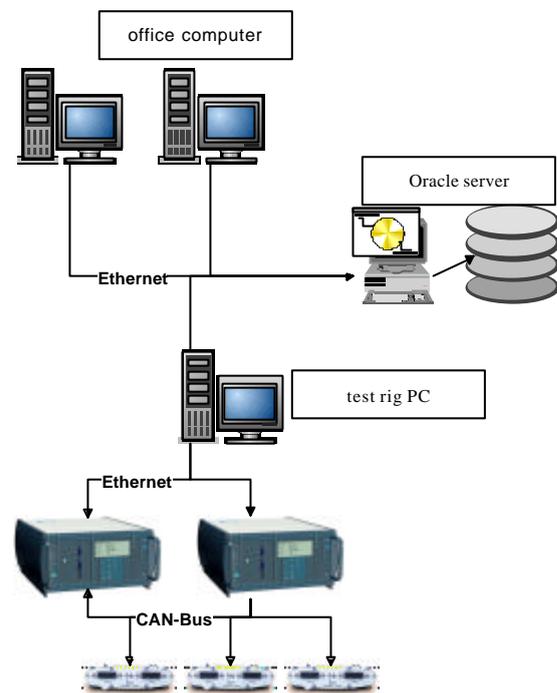
Exhaust systems and silencers are usually tested on motor test benches. To evaluate such objects different test and measurements have to be performed where mainly temperatures and pressure values are acquired. There is no question that a modern measurement philosophy is needed and in order to increase the productivity of its test & measurement equipment Zeuna Stärker, a German manufacturer of exhaust systems, recently renewed several of its test benches. A solution based on imc's hardware and software innovations was the first choice.

But hardware is only one of many important points. In addition, a turnkey software solution, the handling of manufacturing master data and test data, the adaptation on a data server and network environment all belong to a complete solution as well. Aside from that, the expectations from new test & measurement solutions include instant results through online data calculation and online data evaluation as well as a wide variety of online data display. Finally, the offline data evaluation and integrated result documentation are a must. In spite of all these demands the system must be easy to understand and to handle. Even for less skilled users.



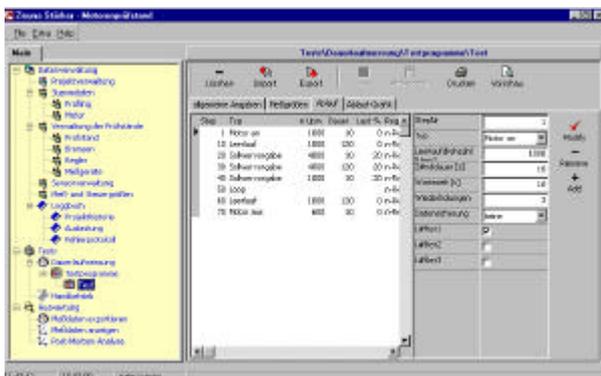
Zeuner Stärker exhaust test rig

The basis for 6 new test cells are two imc measurement system μ MUSYCS in combination with imc CANSAS modules. In particular, Zeuner Stärker's engineers were interested in combining a centralized measurement system with a number of decentralized and intelligent data acquisition 'satellites'. "It makes such systems efficient and flexible. Exactly what we need" one engineer told us during the installation of the system.



The principle of imc's hardware solution

A central computer unit (test rig PC) handles most of the general control tasks. It checks all the test rig states, coordinates the data evaluation and an alert system, and administrates all process and measurement information. While data evaluation and reporting can be performed by any single computer inside the network, this test rig PC acts as the centralized user interface for all test rigs. On the whole, the introduced system underlines imc's competence for complex turnkey solutions. The benefit from our professional hardware measurement systems, our software and our expertise is demonstrable. Exactly what customers demand!



A turnkey solution based on a modern browser philosophy

