


<b>Press release</b>			
MCD Elektronik GmbH Hoheneichstr. 52 – 75217 Birkenfeld Tel. +49-7231 47296-0 – Fax: +49-7231 47296-10 Geschäftsführer: Bruno Hörter	Ausgabedatum: 05.09.2013	Seite 1 von 3	
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<b>Zur sofortigen Veröffentlichung</b>		Rückfragen an: Laura Kuhn, <a href="mailto:marketing@mcd-elektronik.de">marketing@mcd-elektronik.de</a>	

## Tracking the clean sound

The new AudioAnalyzer of MCD provides a better test quality


Birkenfeld, September 4, 2013:

Infotainment systems belong to the numerous electrical assistants in an automobile. By combining automobile radio, navigation system, hands-free speakerphone, drivers assistances system and other functions in a central operating panel these devices are much more than ordinary automobile radios. In addition to voice signals there are for the most digital UMTS signals which are substituted to the car. These systems are prevailing employed to automobiles from the luxury class. Therefore the requirements of voice quality are accordingly high.

The automotive manufacturers as well as their suppliers need measurement technology, which is able to proof high-frequency performance and the quality of audio transmission. A good choice for the development and assembly of test stands for electrical and electronical device components is MCD Elektronik from Birkenfeld, a specialist for measurement and test systems. By order of an international automobile supplier MCD delivered an UMTS module tester. This test stand in a compact 19" rack-version includes two MCD AudioAnalyzer of the last generation. So the audio transmission can be measured at two modules' digital and analog interfaces simultaneously. Measurement results can be aggregated parallel to the high-frequency test procedures because the device supports special measuring methods with very fast measurements. Multiple systems in parallel operation enable an in-step 100% production testing. Due to its compact dimensions, extensive equipment on interfaces along with the low price, increasingly more professionals are having the AudioAnalyzer integrated into test systems.

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MCD Elektronik has sold more than 500 units of the "AudioAnalyzer" to customers all over the world and the specialist for measuring and testing systems still works for improvements of its successful measurement system. In its current version the AudioAnalyzer captivates with its practical housing, which can be easily implemented into space-saving 19" racks. Customers around the world use this device for the testing and calibration of analog and digital sound systems.


The device, in its basic configuration comes equipped with analog, digital and optical inputs and outputs. The applications range from the tuner calibration, testing of audio amplifiers and infotainment systems, to testing of switching power supplies up to the flashing relay or motor examination. MCD's CEO Bruno Hörter confirms his product strategy: "We designed the MCD AudioAnalyzer out of practical experience specifically for the use in manufacturing. The device is characterized by very rapid measurement methods and can easily be integrated into automated test systems. The AudioAnalyzer is therefore an affordable alternative to expensive, oversized and complicated to use lab analyzers."

An important application of the AudioAnalyzer is the solid borne sound measurement. With the AudioAnalyzer it is possible to test engine or gear-box noises from electrical powered components for example. The focus of these test systems is set on finding failures in gearing, rotation or noise development. The evaluation of the signals in kind of envelopes is useful for documentation of production and for the improvement of product quality in development departments.

Another interesting option is the integrated Micro PC. Together with the MCD "Test Manager" software and other components from the product range of MCD, it allows the realization of complete Test systems.

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The Analyzer is fully remote controllable via a USB interface and operates its own programs autonomously. The "DataManager" investigates statistical analyzes of the measurements and of the quality numbers.

These are acceptance criteria for the customers and all the testing contents could be expanded and changed autonomously by authorized employees. Combinations with test systems including the Boundary Scan and functional tests are easy to realize. The AudioAnalyzer software offers also the option of programming with a scripting language, with which complex measurements can be programmed very easily.

MCD develops complete measurement systems according to the customer requirements as offline or inline systems. Customer support goes from first approach across consulting services, offers, release procedures, FMEA to delivery and installation. MCD also takes care about calibration and the additional service. Trainings at the MCD development center in Birkenfeld make the offer perfect.

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