

## A lightweight WFT for precise measurements

The new CAEMAX 6-component WFT-C<sup>XS</sup>

A wheel force transducer ideal for smaller cars and EVs



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The telemetry and sensor specialist CAEMAX Technologie GmbH is expanding its product range in the field of wheel force transducers with the new WFT-C<sup>XS</sup>. Because of its weight, the proven WFT-C<sup>X</sup> was not an option for all applications, but now these tasks can be fulfilled by the considerably lighter WFT-C<sup>XS</sup> variant, which is optimally suited for small cars with rims from 13 inches in size – and with almost the same strength. It simplifies the testing and measuring of load profiles, driving dynamics or braking in all applications where weight plays a decisive role. Like all other CAEMAX wheel force transducers, the WFT-C<sup>XS</sup> can be mounted in no time at all. It has a robust design and is protected against dirt and moisture. The new CRFX/WFT-2 module provides a direct interface to the imc CRONOSflex DAQ system for further processing of the acquired data.

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After consultation, we will assume costs associated with publication.

The proven 6-component WFT-C<sup>x</sup> from CAEMAX Technologie GmbH is now also available for small cars with rims from 13 inches. The application scope of the WFT-C<sup>xs</sup> is diverse: with one and the same configuration, brakes, tires and driving comfort can be tested. It is possible to perform fatigue testing on the test bench, determine load profiles on prototypes or carry out functional testing under difficult environmental conditions.

The robust housing and user-friendly handling of the wheel force transducer allows forces and moments occurring on the wheel to be measured in the X, Y and Z directions. The housing of the WFT-C<sup>xs</sup> is shockproof up to 100 g and sealed against dirt, water and snow conforming to protection class IP66/IP67. The optimized cooling design in combination with the good heat conduction of the aluminum body prevents excessive heat input even during emergency braking. The entire signal conditioning is designed for an extended temperature range and protected against electromagnetic interference. Thanks to its modular design, the WFT-C<sup>xs</sup> can be easily adapted to different vehicle types, wheel sizes or testing tasks and installed in the shortest possible time.

After installation, the WFT-C<sup>xs</sup> is quickly ready for operation, as all the necessary setting and calibration values are stored in each transducer. A software function ensures the zero adjustment of one or more WFTs. Thanks to the digital online calculation with 24 bit resolution, the signal processing in the WFT-C<sup>xs</sup> generates dynamic measurement signals and is resilient to interference. The new imc CRFX/WFT-2 module provides a direct interface to the imc CRONOS*flex* DAQ system for the transmission of measurement data from the WFT. The handy module, to which two WFTs can be interfaced, transmits the measurement data digitally and interference-free. It can be connected to the DAQ system via a click-lock to save time. A total of up to three CRFX/WFT-2 modules can be connected to an imc CRONOS*flex* measurement system.

## About CAEMAX Technologie GmbH (Manufacturer)

CAEMAX Technologie GmbH, based in Munich, Germany, is a manufacturer of special measurement systems for research and test departments in the automotive and mechanical engineering industries. The core of the product range is formed by automotive sensors and telemetry systems developed in-house. Their main focus is on providing customers with the best possible, most comprehensive solutions for specific measurement tasks, with maximum user-friendliness and short set-up times. With tailor-made engineering services and training courses, CAEMAX also imparts the know-how for its products. As part of the "imc group", CAEMAX Technologie GmbH has been in a sales and development partnership with imc since 2015, aiming to offer integrated measurement solutions.

## imc Test & Measurement GmbH (Sales and System Integration)

imc Test & Measurement GmbH is a manufacturer and solution provider of productive test and measurement systems. Together with its customers from the fields of automotive engineering, mechanical engineering, railway, aviation and energy, imc implements metrological solutions for R&D, service and manufacturing. Every day customers use imc measurement devices, software solutions and test benches to validate prototypes, optimize products, monitor processes and gain knowledge from measurement data. The performance promise "productive testing" is consistently pursued by imc. The company offers its customers top technological performance along the entire measurement chain.

The core of the product portfolio consists of imc's modular measurement, control and automation systems, which are supplemented by custom-fit sensor and telemetry systems for customer applications. Using the imc software platform, users can quickly and easily implement comprehensive test and measurement processes, perform real-time analyses and automate test benches. With powerful software tools for the analysis and management of test and measurement data, as well as cloud services, imc sets trends in future technologies, such as smart data analysis, and brings measurement technology solutions to industry 4.0 and the Internet of Things (IoT).

imc has particular expertise in the design and production of turnkey electric motor test benches. Equipped with state-of-the-art test procedures, such as load-free acquisition of motor parameters and automated test sequences, they accelerate customer testing. imc test benches work reliably worldwide, both in R&D and in production environments.

As a solution provider, imc offers its customers an attractive range of services. These include project consulting, contract measurements, data evaluation, outsourcing of specialists, customer-specific software development and system integration.

imc customers benefit both nationally and internationally from a strong expertise and sales network that implements test and measurement solutions locally in more than 25 countries.

Founded in 1988 in Berlin, the company employs around 250 people at three locations in Germany. Together with other companies, imc forms the "imc group". These include the international headquarters in France, Switzerland, the Netherlands, the USA and China, as well as the German sensor and telemetry specialist CAEMAX Technologie GmbH. A strategic partnership also connects imc with the telemetry specialist KMT Krauss Messtechnik GmbH.