

OPTIMIZATION OF MEASUREMENT PROCESSES

With the universal test software **MCD TestMate**, measured values can be recorded quickly, flexibly and easily as part of measurement and testing applications. By running several test sequences simultaneously, the test time can be drastically reduced, especially in production environments with high throughput.

The development of **MCD TestMate** is based on MCD Elektronik GmbH's many years of experience in the field of test and automation technology. The software was designed from the ground up to meet the specific needs of production facilities specializing in the testing of electronic and mechatronic components.

MCD TestMate uses a modern C#-based platform that is highly customizable thanks to its plug-in architecture. This architecture allows **MCD TestMate** to be seamlessly integrated into existing production systems and to respond to specific user requirements.



■ MODERN TYPE MANAGEMENT

Efficient & structured management of device types and assignment of specific test sequences and parameters.

■ VARIETY OF INTERFACES

Wide range of communication interfaces such as Ethernet (TCP/IP, UDP), USB, CAN, LIN, serial interfaces such as RS232, GPIB, REST and many more.

■ PARALLEL & ASYNCHRONOUS TEST SEQUENCES

Simultaneous execution of several test sequences without them influencing each other. This increases efficiency and reduces test time.

CUSTOMIZABILITY

- C#-based software platform with plug-in architecture
- Limitless integration of MCD's Toolmonitor portfolio
- Flexible integration of external software solutions, such as .NET, Windows and third-party DLLs

■ EFFICIENT RESOURCE MANAGEMENT

Optimized use of cost-intensive measuring devices and test resources by managing them centrally and assigning them specifically to the respective tests. Companies can optimize their hardware investments by ensuring that the available devices are used as efficiently as possible.

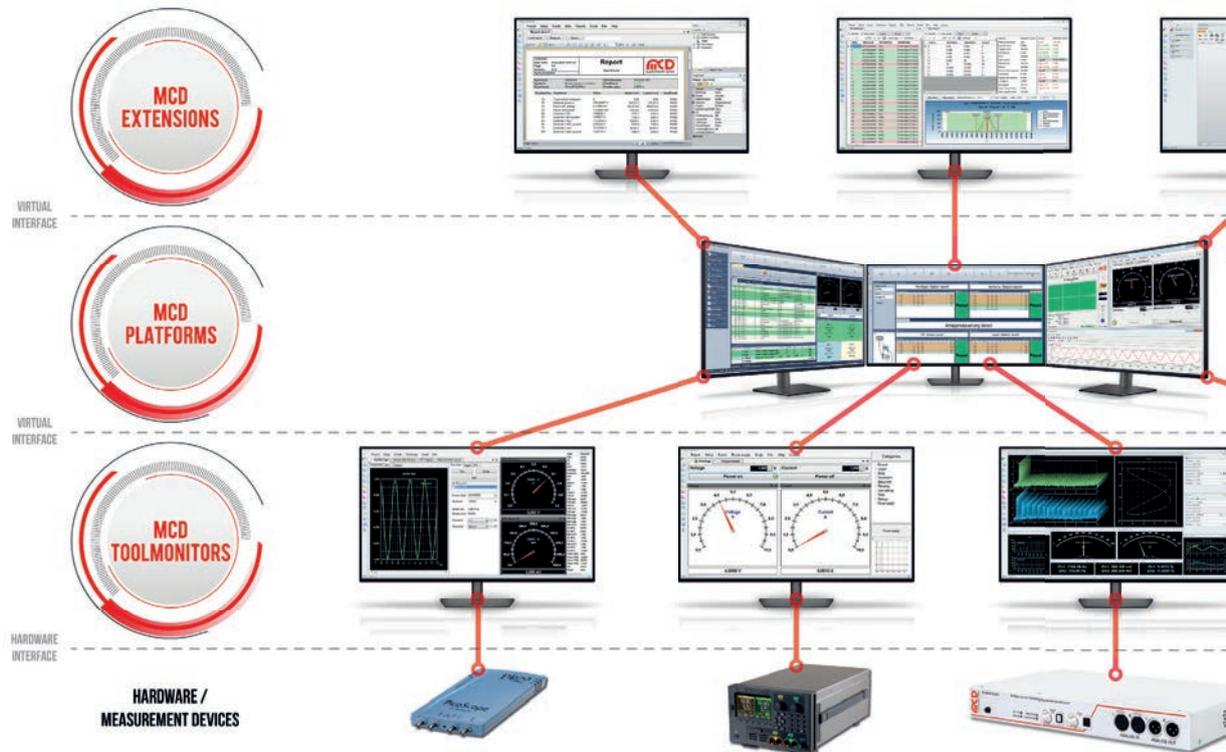
ADDITIONAL FUNCTIONS

- Recording and analysis of measurement data
- Control of actuators and robot systems
- Flexible and automated test sequences
- Golden sample tests for quality assurance
- User-friendly interface with visualization

INSTALLATION

- Quick & easy installation with step-by-step instructions
- Easy to get started with quick start guide
- Intuitive user interface with customization of control elements up to the integration of user-defined workspaces

EASILY EXPANDABLE AND CUSTOMIZABLE - MCD TESTSUITE WITH MCD TESTMATE AS CENTRAL PLATFORM



The figure above shows the core, MCD TestMate, as the centerpiece of the "MCD TestSuite" with a variety of extensions, MCD tool monitors and interfaces to other hardware and measuring devices.

TOOLMONITORS FOR HARDWARE INTEGRATION

Toolmonitors can be used to integrate a comprehensive range of measuring and testing hardware. These are already available ready for use for a wide range of devices. **All common communication interfaces can be integrated.** For example, measuring devices, generators, oscilloscopes, power supply units, audio/video measuring devices, multipliers, programming devices and sensors can be integrated easily and efficiently.

INTERFACES TO DATABASES OR PROCESS CONTROL SYSTEMS

All common external databases can be seamlessly integrated using predefined toolmonitors. In addition, **numerous interfaces to customer-specific database systems** are available. Examples include Microsoft SQL Server or SQL Express, Oracle, MySQL, MariaDB, SQLite and others.

INTEGRATION OF EXTERNAL SOFTWARE

MCD TestMate offers the option of integrating third-party software. This integration enables the inclusion of classic Windows DLLs, .Net assemblies as well as LabView VIs or ActiveX components. This opens up extended possibilities for seamlessly integrating external software solutions into the functionalities of **MCD TestMate** and further increasing the performance of the system.

POWERFUL SOFTWARE PACKAGE – FAST & TAILORED

MCD TestMate represents a first-class software development package that enables the creation of test sequences for a wide range of test systems. Its application areas range from inline board testing, end-of-line testing, screening systems and in-development testing for verification and quality control. With its **versatility** and advanced functionalities, **MCD TestMate** stands out as an essential tool for precise and reliable test processes.

The main application is defined by a **powerful type management**, which provides all the necessary information on device types and the associated test sequences. This functionality enables efficient and precise control of the test process, which ensures a high degree of flexibility and **comprehensive test coverage** when performing tests.

The structured management of device types allows devices to be grouped into **type families** for which a standardized test sequence can be used. Of course, this test procedure can be adapted to specific types.

Fully automated, the system enables several different tests to be carried out **simultaneously and asynchronously** if required. The handling of the individual devices to be tested and the assignment of the respective measuring equipment is carried out independently by the test software without additional programming on the part of the user.

Thanks to **integrated resource management**, cost-intensive measuring devices can be efficiently shared and optimally assigned for the respective tests. Companies can thus organize their test processes centrally, which is a great advantage, especially in complex production environments.

REPORTING AND ANALYSIS OF MEASUREMENT DATA

If required, all recorded measurement data can be saved in almost any database and displayed again for tracking purposes. There is the option to **generate automated test reports**. Predefined templates are available for this purpose, which can be fully adapted to the respective customer requirements. The **analysis, evaluation and logging of the recorded measured data** according to various statistical procedures is fully automated.



MCD TESTMATE BENEFITS FOR COMPANIES



COST SAVINGS

By automating tests and enabling multiple tests to be carried out simultaneously, companies can shorten their test times and save costs.



RELIABILITY

The ability to regularly check test systems using golden sample tests ensures consistently high quality and reduces the risk of production failures.



RESOURCE MANAGEMENT

The efficient management of costly hardware components means that resources are used optimally. This leads to better capacity utilization and lower investment costs.



FLEXIBILITY

The ability to adapt the software to specific requirements makes MCD TestMate an extremely versatile solution that can be used in a wide range of industries.



INTEGRATION

MCD TestMate can be effortlessly integrated into existing systems, minimizing investment in new hardware and software.



FUTURE-PROOF

The continuous development of the software ensures that MCD TestMate always remains at the cutting edge of technology and meets future requirements.

MCD Elektronik GmbH is a leading global supplier of measurement and test systems that perform the most complex test sequences. MCD combines the areas of research and development, sales, production and service to create **customized test and measurement solutions**. These vary from FCT, BSCAN and EOLT systems to fully automated test lines for the production facilities of high-tech companies in various industries such as automotive, medical and aerospace.

MCD was founded in 1983 and supplies **complex test and automation technology** worldwide. The systems are used by well-known corporations as well as medium-sized companies for the **production and testing of electronic and mechatronic assemblies**.



Pictured: The headquarters of MCD Elektronik GmbH in Birkenfeld. This is the heart of the production of customized test systems - from conception to commissioning on site. Worldwide in over 60 countries.

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