

# ***PRESENTATION***

***BMC MESSSYSTEME GMBH***

**b m c m**

# OUR KNOW-HOW

## BMC Messsysteme GmbH – Measurement Technology "Made in Germany"



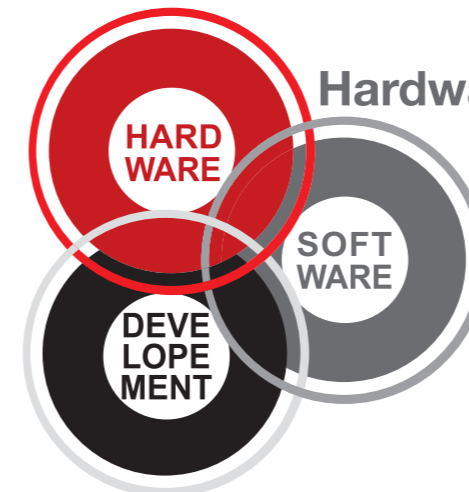
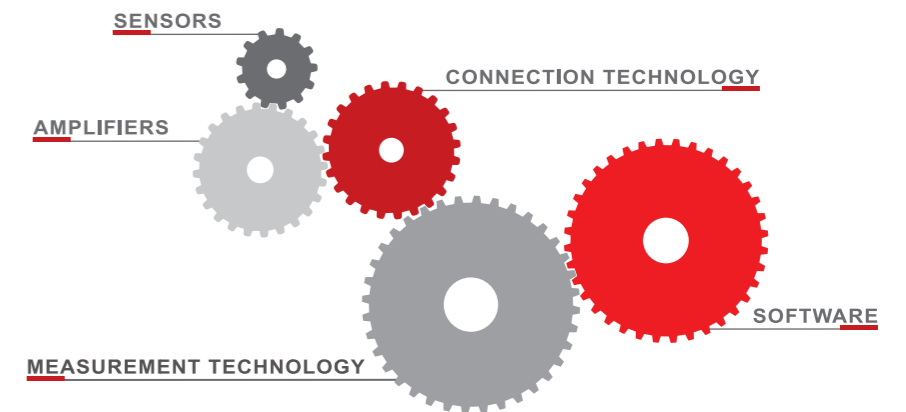
The team of BMC Messsysteme GmbH has been developing hardware and software in the field of physical measurement and test engineering for more than 20 years. We set great value on quality "made in Germany" and produce all products in the Munich area.

Measurement technology by bmc is available worldwide and universally applicable. No matter if in vehicles, at test stands, or when monitoring machines and plants – our measuring systems are quickly installed, intuitive to operate, powerful, and low-priced. Give it a try!



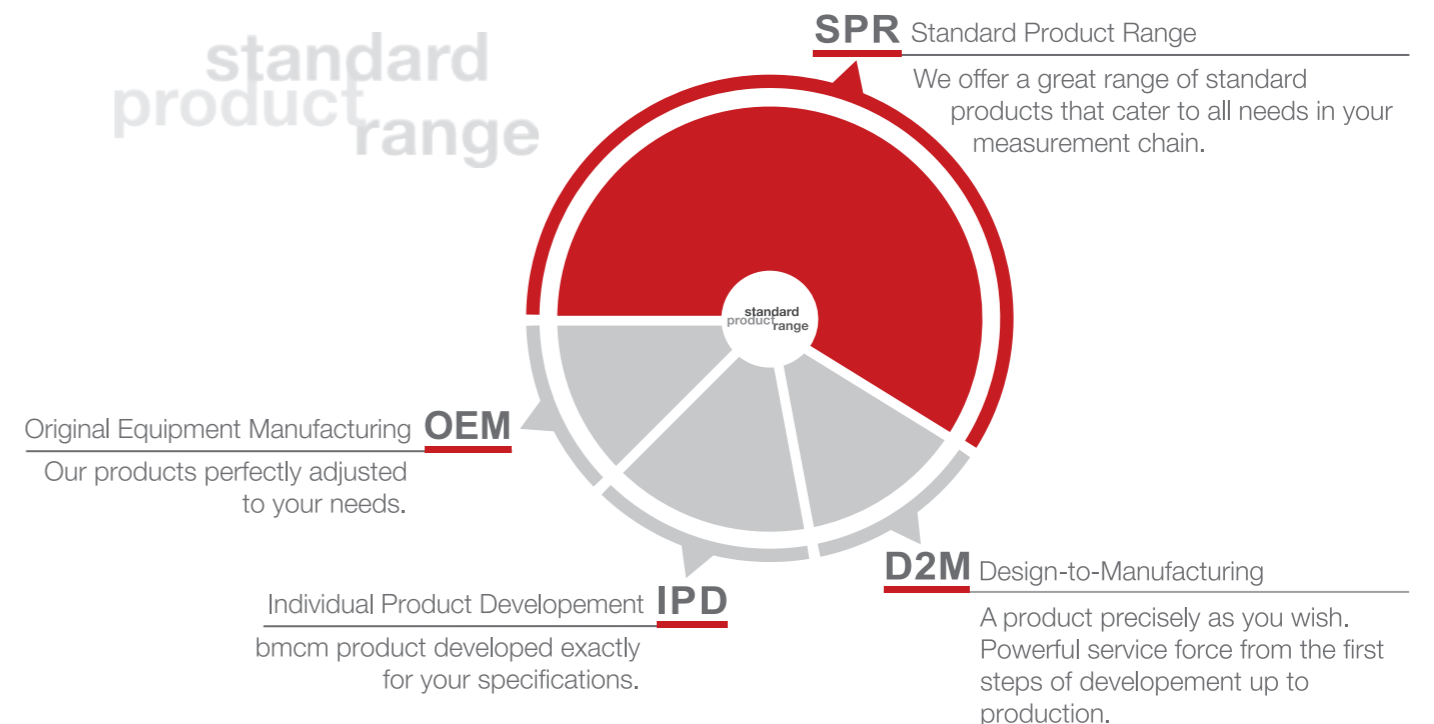
## From Sensor to Software

We produce all components of a measuring chain ourselves. The various production groups are synchronised precisely.



## Hardware and Software from a Single Source

Only if hardware and software is developed in teamwork, perfect adjustment is possible. In this point we gain the deciding advantage compared to our competitors.



# YOUR ADVANTAGE

## Mit bmc zum Erfolg!



### Quality Intensification

Improve your products by knowing all parameters. Get to know the correlations. High quality in development and production helps to make your products better and your customers happier.



### Product Improvement

The elevator is bumpy. The brakes are squealing. The engine is a little bit too warm. No real problems. But: What are the effects in the long run? What happens in another temperature range? Improve your products and get ahead of your competitors!



### Early Detection of Damage

Permanent monitoring of machines and plants helps to prevent production downtimes. Solve problems before they will have negative consequences.



### Cost Reduction

The high quality of your products reduces reworking in production and relieves your repair management. Detecting unneeded energy consumer loads directly saves costs.



### Prozess Optimization

Sporadically occurring faults prevent a perfect running production process? Search for the weak points. With our measurement equipment you will find even rarely occurring errors.

## Unique Features for Your Measurement Task!



### Interference Monitoring

Record events with the help of "trigger" and "prehistory" in all analog and digital inputs. Even in calculated channels. Measured data is only stored after the calculated measurement value has been reached. Even measurement values previous to the event are saved.



### Long Term Measurement

Using the tool multiscan, a measurement file can be changed without losing any measurement values. This enables "real" long term recordings.



### Lots of Different Measurement Values

You want to measure temperature, pressure, acceleration, distance and many more. The measurement technology of BMC Messsysteme GmbH makes it happen easily.



### Test Stands

A test stand is used in the development as well as in quality monitoring of production processes. Precision and reliability are the most important criteria. The implementation of test stands with bmc products enables a very fast realisation of measurement technology in test stands.

# CUSTOMIZED

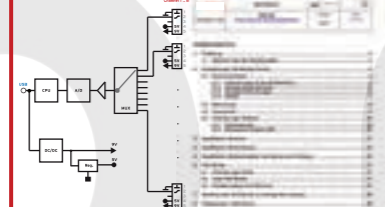
Development process at bmc

**Your Project.**



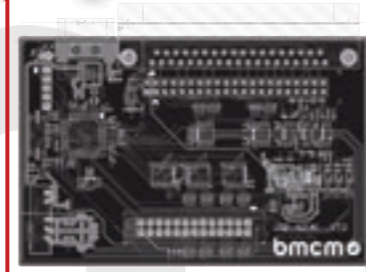
Your Idea.

**The Specification.**



According to Plan.

**The Development.**

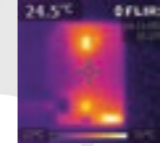


With Professional Tools.

**The Simulation.**



Faster on target.



**The Tests.**



Because Quality matters.

**The Product.**



Perfection.

**Your Target.**



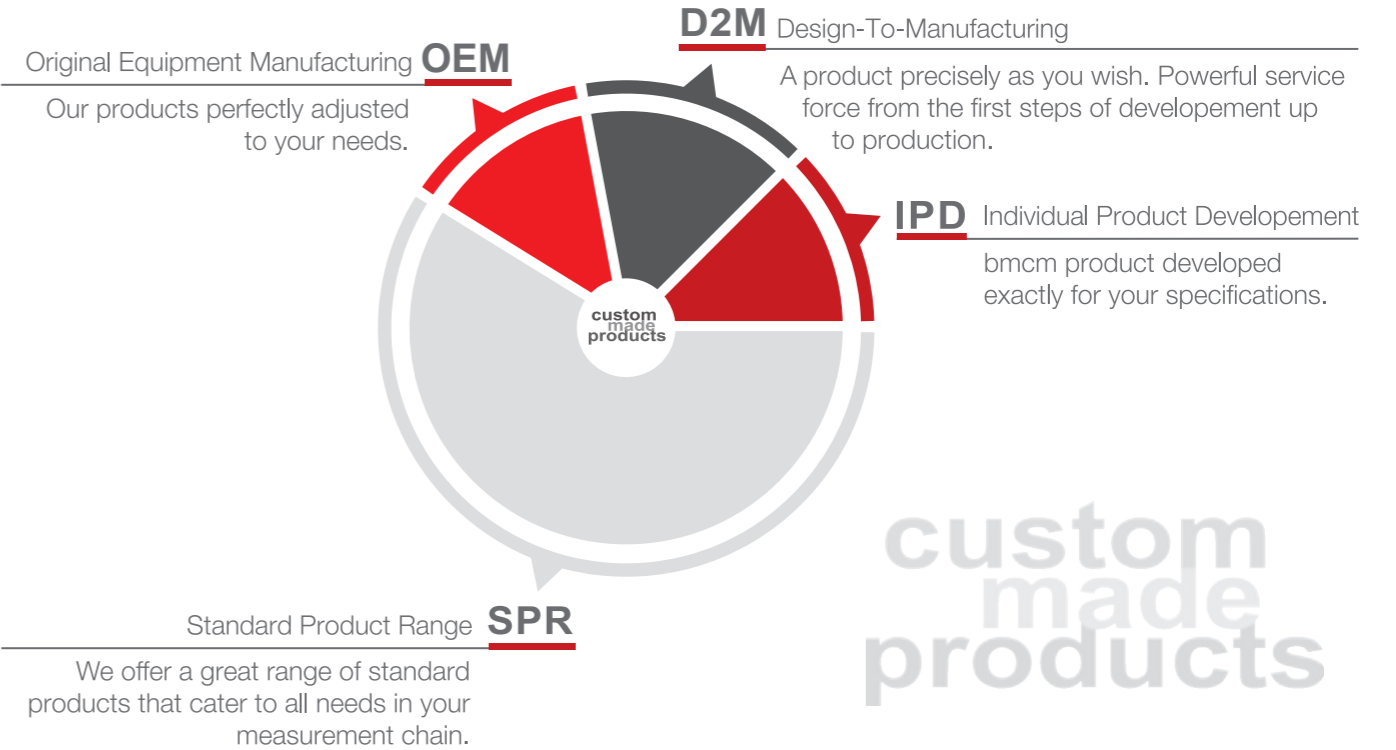
Your Success.

## Product Specially for You

Our range of special products are divided in three categories D2M, OEM and IPD. Detailed information and a request form for download access are available on [www.bmc.de](http://www.bmc.de).

- D2M - Design-To-Manufacturing
- OEM - Original Equipment Manufacturing
- IPD - Individual Product Development

In D2M all rights and duties are left with the client. With OEM/IPD, BMC Messsysteme GmbH owns all development and product rights.

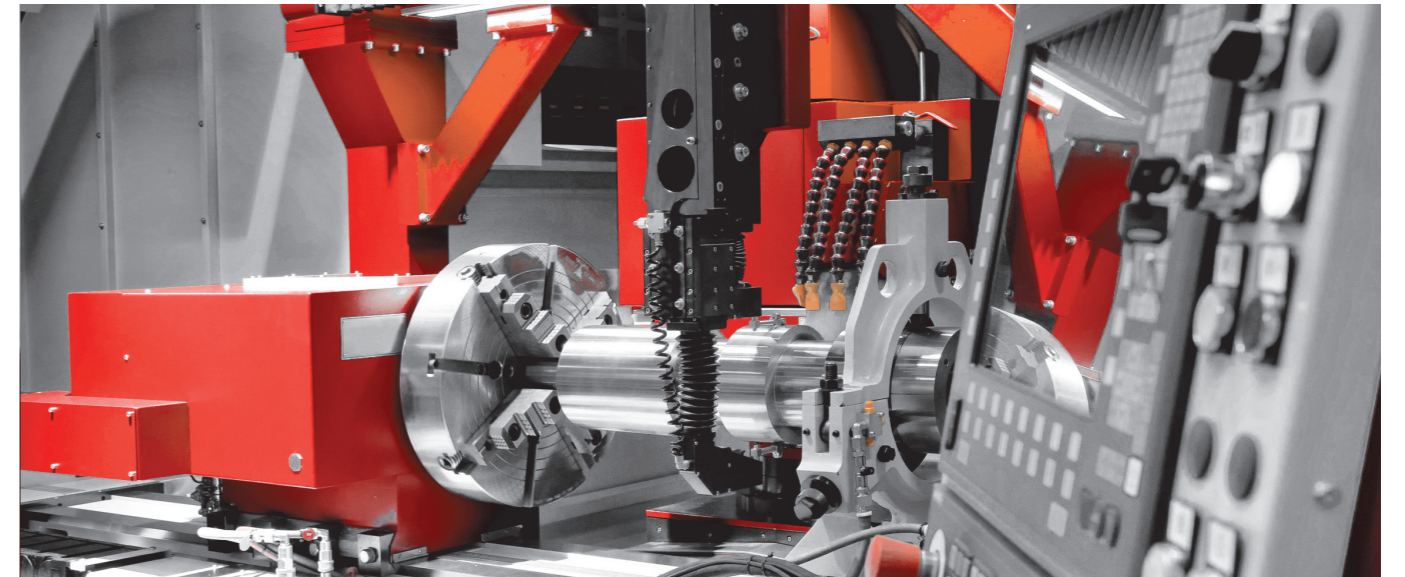


# MODIFIED

## OEM - Original Equipment Manufacturing



## OEM - Our products perfectly adjusted to your needs



### Measurement System for pneumatic brakes in utility vehicles

This product is based on the bmcm DAQ system USB-AD14f. We developed a connection board and a matching case/housing. Extensive certifications (EMV, ESD, environmental test) have been implemented.



### Production Data Acquisition

The digital I/O product USB-OI16 was needed in a rough environment on a CNC machine to collect all data regarding the number of pieces being produced. We reassembled the OI16 for the client with an already existing case solution.

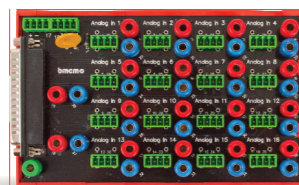
# MEASUREMENT CHAIN

## Sensors & Signals



## Connection Technology with Amplifiers & Signal Conditioning

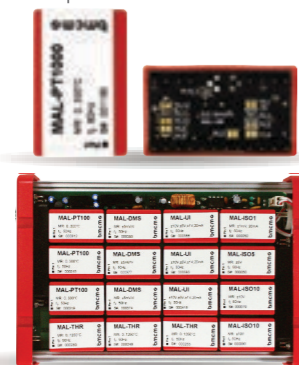
**General**  
Connection Panels



**5B with MA-Series**  
professionell & universal



**Miniature with MAL-Series**  
kompakt & cost effective

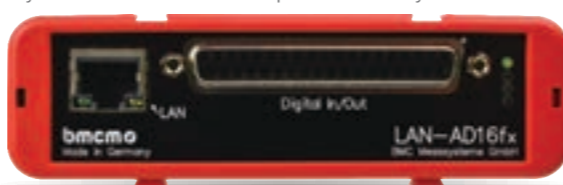


## DAQ-Systems

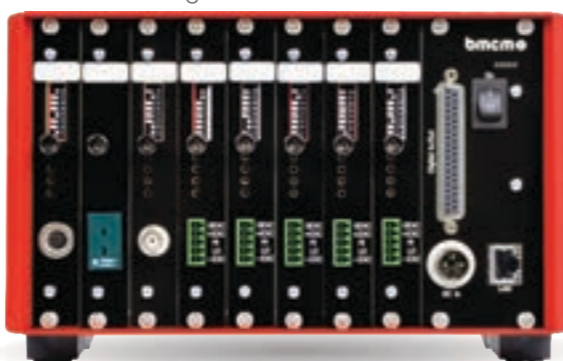
**Miniature Measurement Systems**  
Extra small in size and in price.



**External Measurement Systems**  
High precision LAN and USB measurement systems with an extreme power density.



**All-in-One AMS series**  
Modular measurement technology with integrated LAN or USB DAQ system – individual configuration!



## Software

### Data Acquisition and Analysis.

One software for everything. NextView®4 covers the entire world of PC measurement data acquisition:

displaying live data, recording measured values, analyzing your measurement applications - and much more.



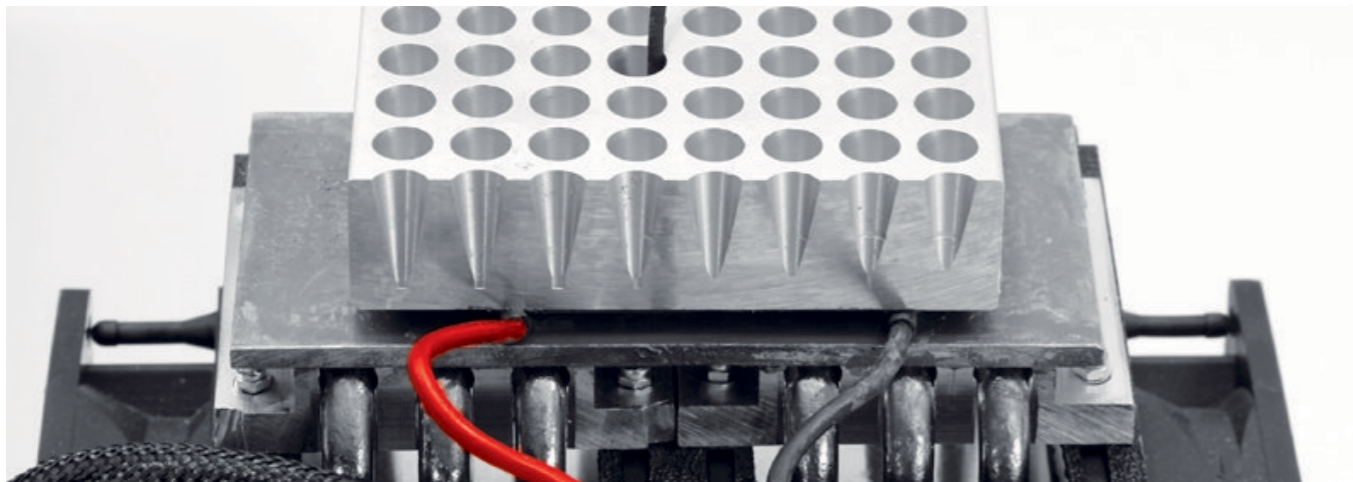
# NextView®4



# INDIVIDUAL

## IPD - Individual Product Development

bmcm product developed exactly for your specifications



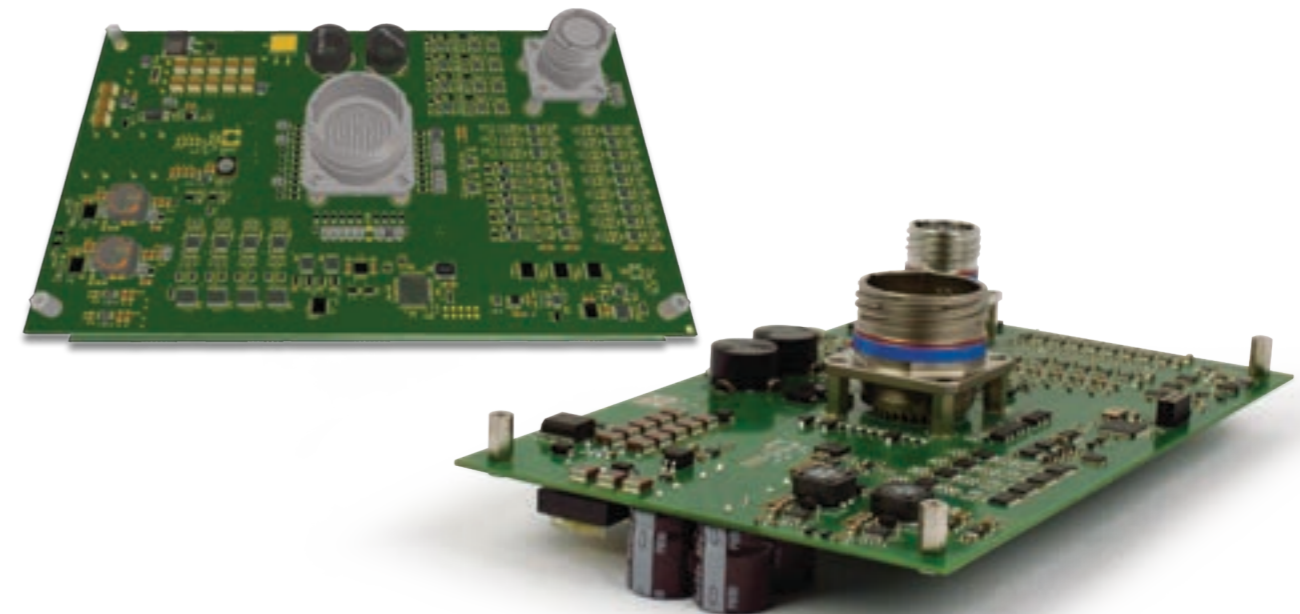
## D2M - Design to Manufacturing

Your product precisely as you wish. From the development right through to production.



### PT1000 temperature DAQ system for thermocyclers

The client required a multi channel temperature measurement system for PT1000 sensors to check and monitor thermocyclers in medical technology. Therefore we integrated the DAQ system USB-AD16f with a PT1000 amplifier board in a new case.



### DAQ System with Multiple Channels

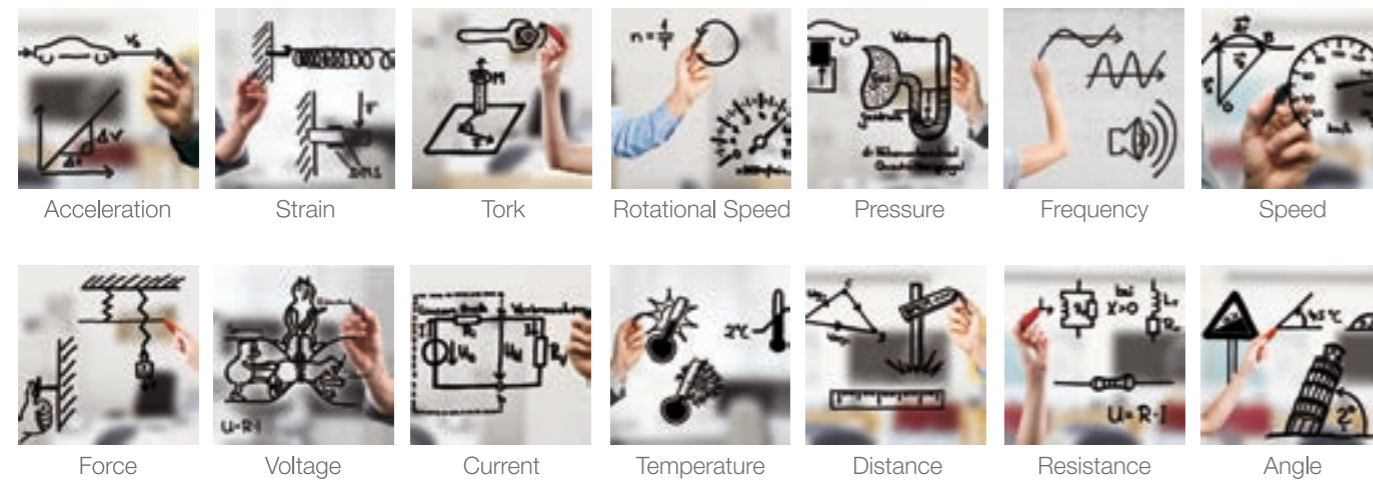
The task was a DAQ system for aviation engines with measurement values like voltage, temperature, rotational speed and discrete values. All data are transmitted via the ARINC429 bus to the board computer. The applicable aeronautic regulations and inspections have been implemented by the client.

# APPLICATIONS

## Measurement Parameters

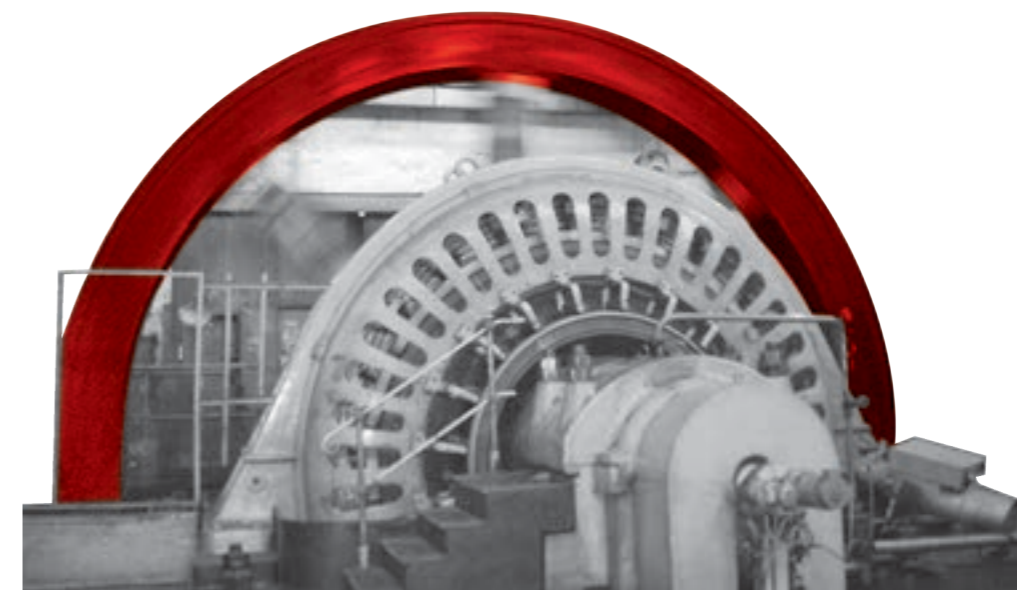
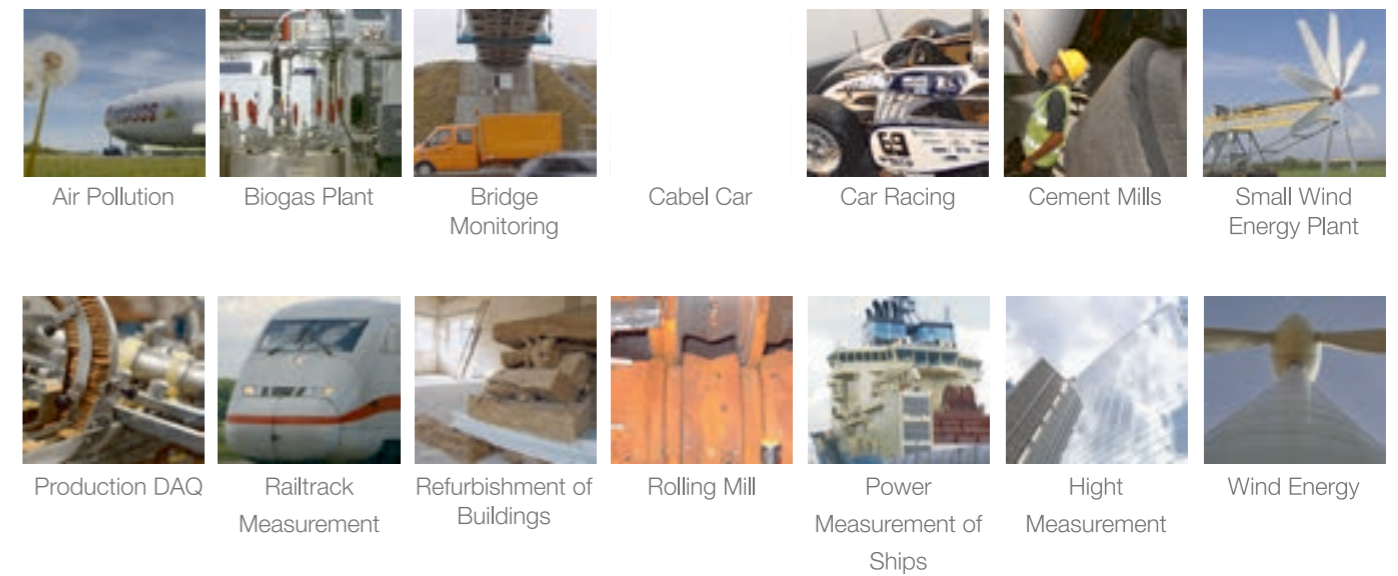


Your measurement problem always starts with the measurement parameter of your application. In most cases several measurement parameters have to be acquired. In general this means a physical value like mass, power or temperature, that are or will be the aim of a measurement process.



## Applications

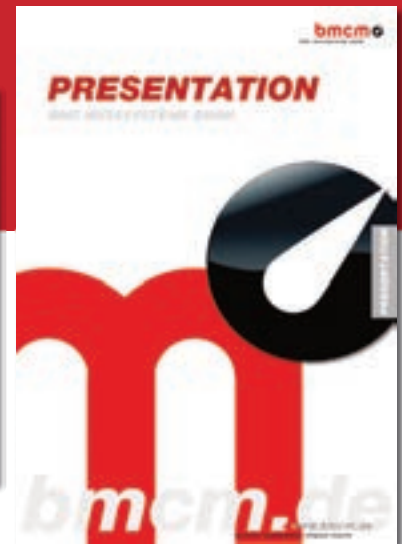
Measurement technology is found in most versatile areas. In the industry it is a fundamental part of all development-, production- and optimizing-processes. Discover bmcm measurement systems in action!



**The applications possibilities of bmcm hard- and software are nearly unlimited!**



## Additional product catalogues by bmcm:



## Visit us on

- ▶ [www.bmcm.de](http://www.bmcm.de)
- ▶ [www.nextview.de](http://www.nextview.de)

## BMC Messsysteme GmbH

Hauptstraße 21  
82216 Maisach  
GERMANY

Phone: +49 8141 404180-0  
Fax: +49 8141 404180-9

Mail: [info@bmcm.de](mailto:info@bmcm.de)  
[sales@bmcm.de](mailto:sales@bmcm.de)

Web: [www.bmcm.de](http://www.bmcm.de)  
[www.nextview.de](http://www.nextview.de)