

**MOBILITY DEFINED.**

## DIGITAL TRANSFORMATION AND MOBILITY IS CHANGING THE WORLD.

PRODUCTS AND SERVICES ADAPT TO IT –  
THEIR DEVELOPMENT MUST TOO.

Automatic processes and agile tools emerge.

Testing will continue to change.

Connectivity and a Process-Oriented approach is  
essential to handle these industry changes and define true Mobility.

COMPONENT-BASED DESIGN

AND CLOUD-TECHNOLOGY

CREATE CONNECTIVITY



# PROCESS-ORIENTATION

FOR THE INTERACTION  
OF INDEPENDENT, CONNECTED SYSTEMS.

Our PAK cloud with its open data format, unites  
devices and applications:

It scales single devices, test benches and  
even entire testing landscapes,  
guaranteeing independence and flexibility.

ASAM ATFx



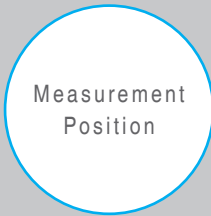
Vehicle Data



Measurement  
Cycle



Geometry



Position



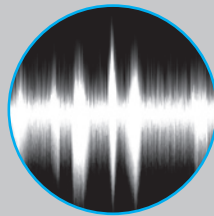
Sensor



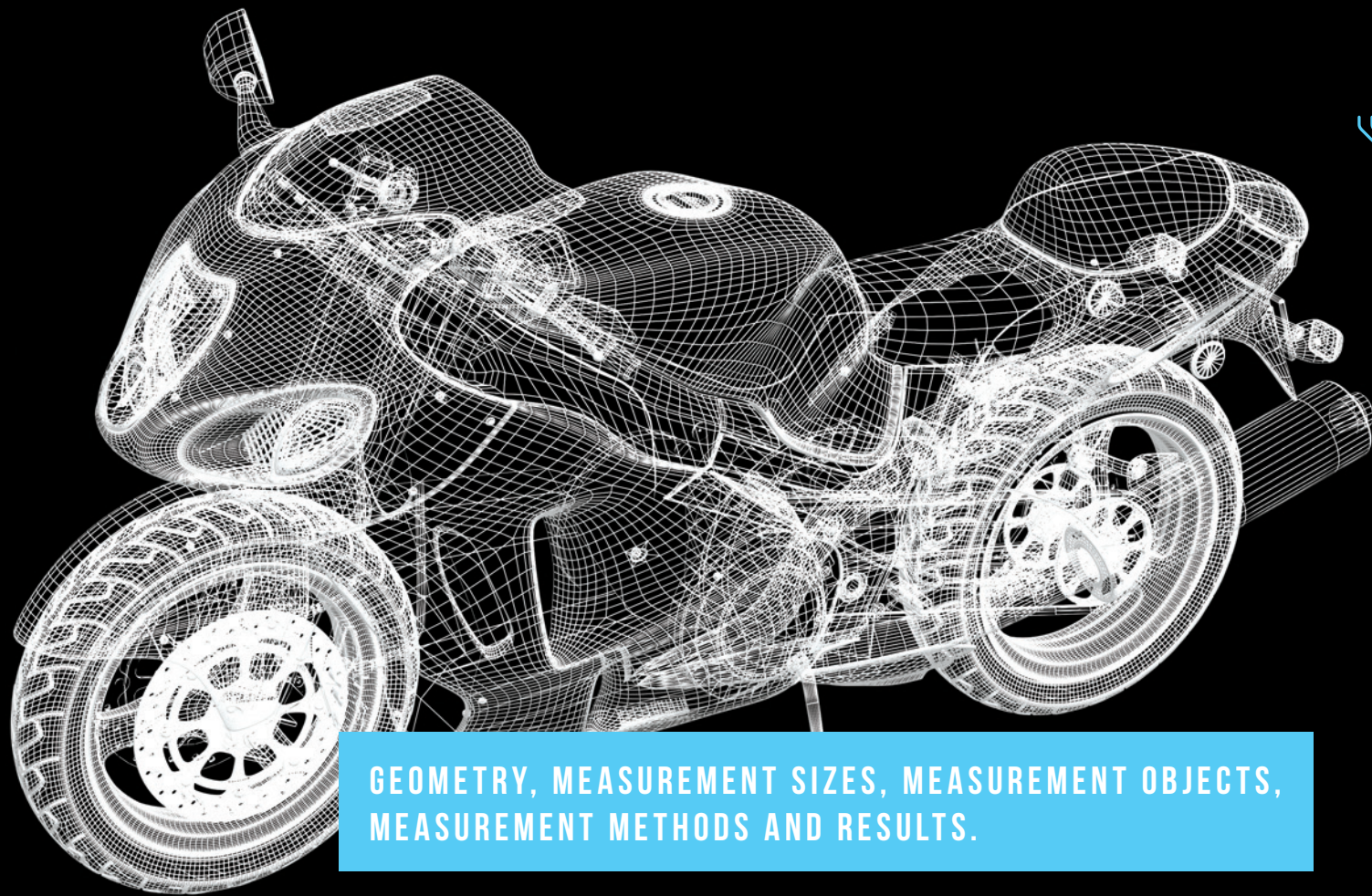
Quantity



Device



Measurement  
Data



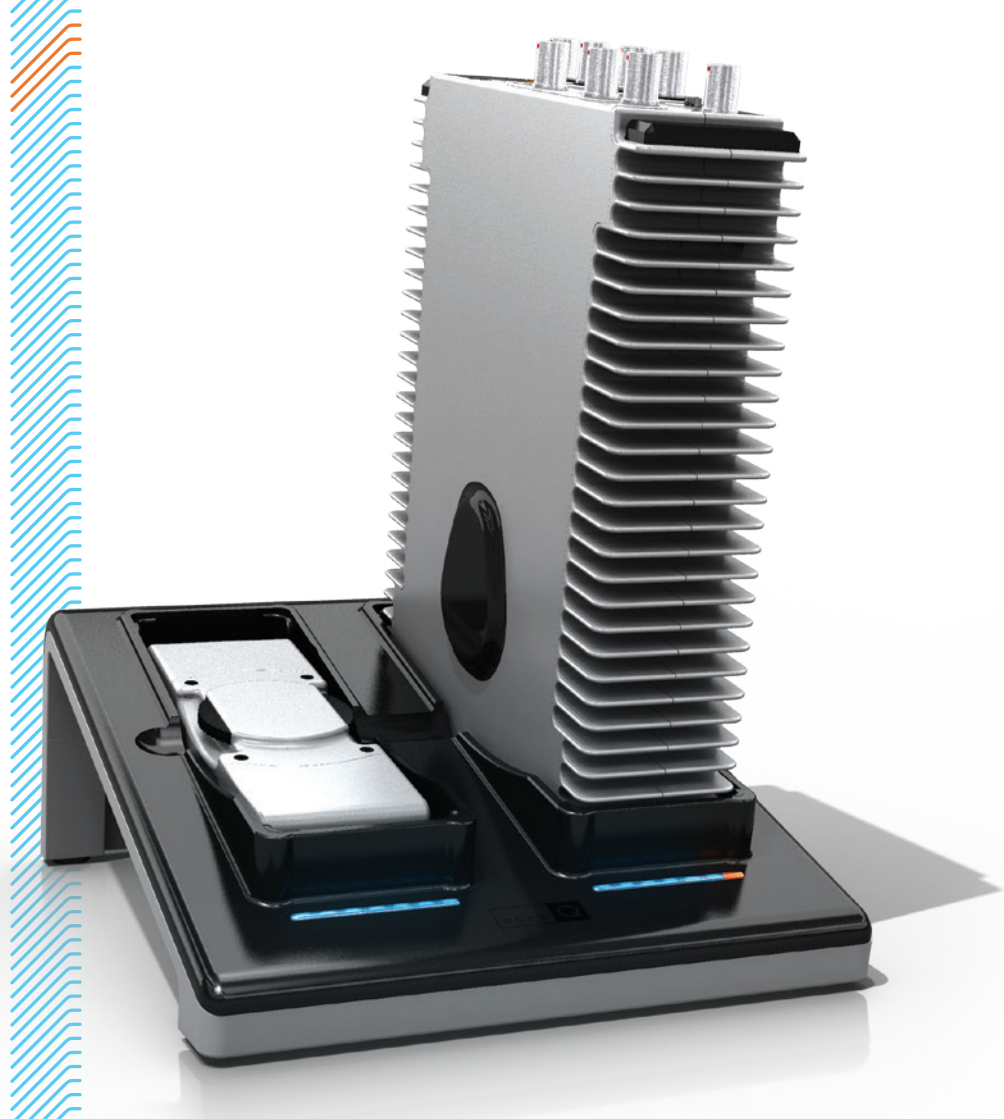
GEOMETRY, MEASUREMENT SIZES, MEASUREMENT OBJECTS,  
MEASUREMENT METHODS AND RESULTS.



## ENHANCED QUALITY **ONE ORDER. ONE PROCESS**

With the PAK cloud order service, planned validation tasks are delegated with confidence, measurement information and results completed and all information immediately shared for further engineering.

#YOU'VEGOTTHIS



Prepared measurement tasks are downloaded to your PAK **MICROQ**,  
straight from your Docking Station.

It just works.

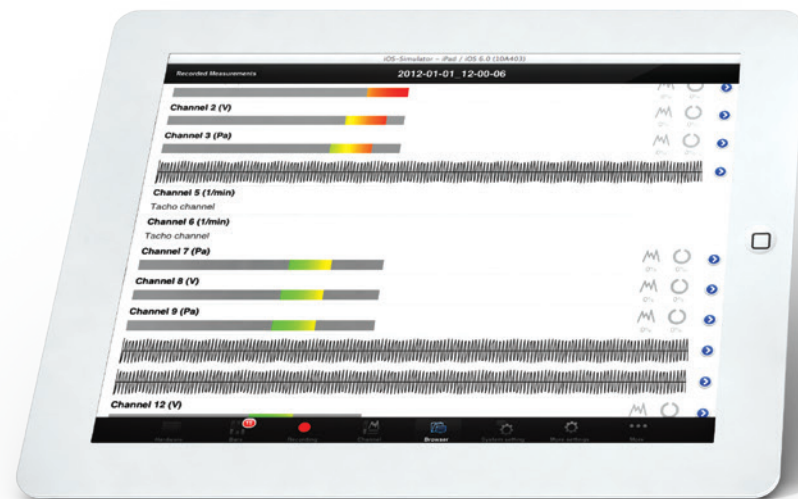
## INTUITIVE WORKFLOW **AND INTERACTION**

#WE'VEGOTTHIS



# INTELLIGENT AND CONNECTED

Introducing the PAK **MICROQ**.



The PAK **MICROQ** is an intelligent measurement device, which Defines Mobility.

It interacts with cloud-services.

It integrates seamlessly in processes.

It processes orders and allows information to flow.

PAK capture is the interface to the data.

For configuring, calibrating, steering, monitoring and measuring.

The perfect combination.



# UNRIVALLED SIGNAL CONDITIONING

## Built-in Channels

CAN FD - 2 channels

High Quality Headset

TACHO - 2 channels, 13.3 ns, 1 MPulse/s

GPS

## Modular Channels

Up to 12 ICP®/Voltage/Charge



## Inherent, High Signal Quality

24-bit

102.4 kSa/s | 204.8 kSa/s | 1 MSa/s

Calibration (including ISO 17025)

## Built-in S-Port for SModules

**SNAV** - Inertia assisted GPS for high resolution velocity measurements at update rates of up to 100 Hz

#NOCOMPROMISE



# ADAPTABILITY FOR ANY MEASUREMENT SCENARIO



## CHOICE OF MODULAR INPUT CHANNELS

6 to 12 Channels Charge | Voltage | ICP®

8 to 16 Channels Temperature

4 to 8 Channels Bridge | Voltage | ICP®

2 to 4 Channels High-Speed Bridge and Voltage

2 to 4 Channels Microphone | Voltage | ICP®

#LETTTHETASKDECIDE

**Intelligent and Connected**

WLAN

Cloud capable

Open, standard data storage format: ASAM ODS

**Record hundreds of hours of data safely**

Built-in 256 GB SSD

**One cable for Power, Ethernet and Synchronization**

PoE

PTP IEEE 1588



# BUILT-IN INDEPENDENCE

*For whatever the day has in store*



**All day operation**

1.5 - 2 hours of use per built-in battery and hot swappable  
external batteries

**#IT'SJUSTMORE**



Add an external **MICROQ** Battery  
and hot-swap your batteries for all day operation.

Dock your external **MICROQ** Batteries on the Docking Station to charge.

# COMPLETE POWER MANAGEMENT CONCEPT

#GOALL12ROUNDS



MAKE ANYTHING, ANYWHERE,  
A TESTBENCH

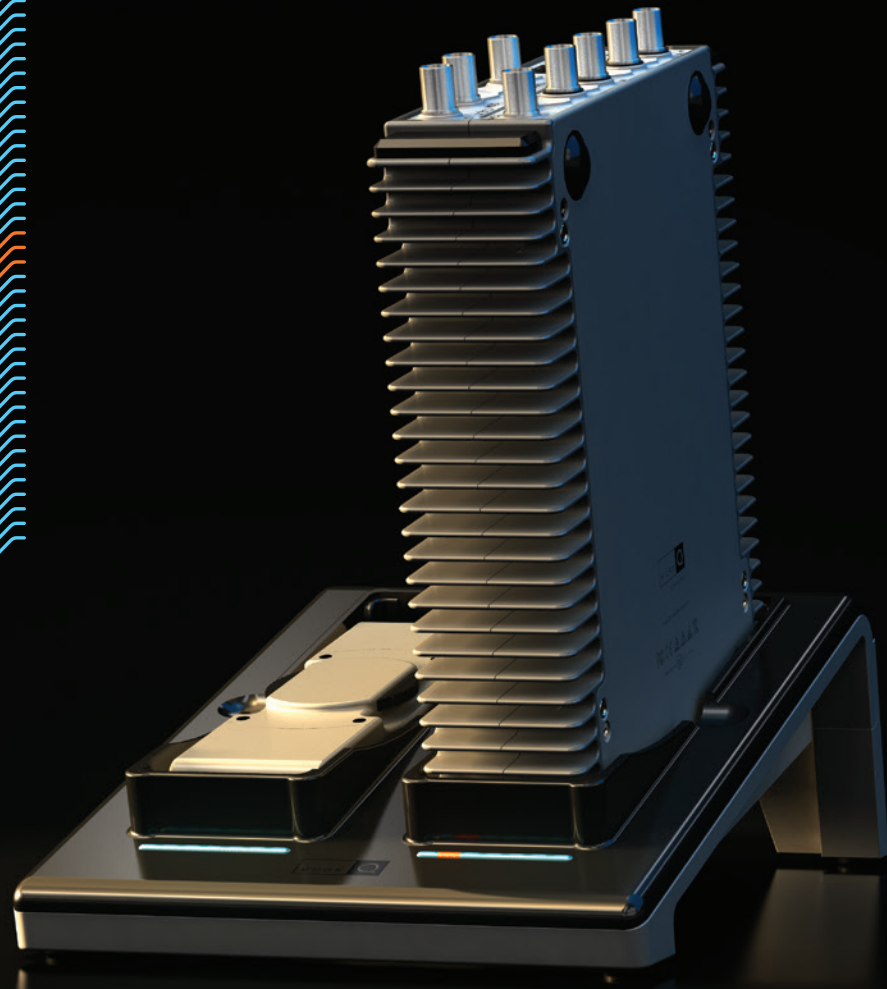
# REAL VALUE

Recorder. Troubleshooter. Testbench Acquisition.

Why choose when you can have all three in one?

Measure *what* you want, *when* you want, *as quickly* as you want  
and *at the quality* you want.

#IT'SMOBILITYDEFINED



# HAVE A GOOD NIGHT

At the end of the day, dock your **MICROQ** and external **MICROQ** Batteries for overnight maintenance and 100% data confidence.

Share and Charge.

**AND THE PAK CLOUD CARRIES ON. SEE YOU TOMORROW.**





BE MOVED





# MÜLLER-BBM

VibroAkustik Systeme

[www.MuellerBBM-vas.com](http://www.MuellerBBM-vas.com)