



MOBILE MEASUREMENTS

An integrated workflow.

Simple and reliable data acquisition and efficient decision-making during mobile measurements or troubleshooting. A continuous workflow, from assigning of the measurement through to evaluation of the data makes this possible. Automated work steps increase test efficiency and offer more process security in measurement data management. – The combination of PAK cloud, PAK capture and MicroQ is the ideal solution for anyone wanting to measure simply and mobile.



TEST ASSIGNMENT

Through interacting seamlessly with the PAK cloud, the ultra-mobile frontend MicroQ automatically has all the relevant information for measuring available. This includes sensor catalogs with measurement quantities, calibration factors, and further channel settings up to complete measurement orders.



DATA ACQUISITION

With the intuitive PAK capture app, setups of measurement orders can be adapted directly on site, signals can be checked, and the measurement chain calibrated. Your measurement device is effortlessly ready for use in no time; measurement data is securely recorded and calibrated. All data is available online.



DATA MANAGEMENT

The MicroQ guarantees highest signal quality with maximum flexibility in the input channels. The dynamic data collected in the open ASAM ODS ATFX format is stored automatically in PAK cloud data depots and can be analyzed further.

PAK cloud:

- Measurement data management for physical data
- Open API for maximum scalability
- Role and rights management
- Services, including search/find, storage and processing of data, order management
- High-performance handling of large amounts of data

PAK capture:

- App for phase-synchronous, calibrated recording of physical data
- Realtime display / interface to the data
- Order processing, sensor catalog, calibration, recording, signal monitoring, signal curves – simple and clear
- Configurable trigger conditions
- Playback of measurement data

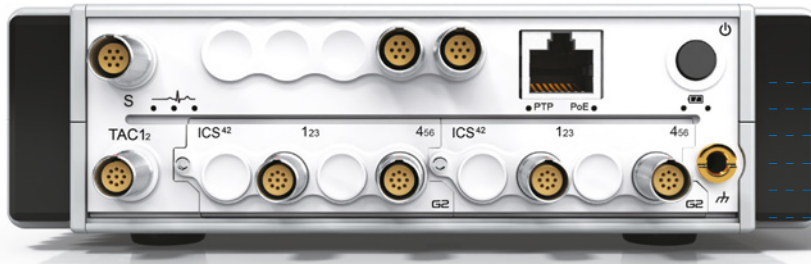


Müller-BBM VibroAkustik Systeme
recommends MicroQ – a mecalc design

MicroQ – Intelligent. Connected. Powerful.

Intelligent data acquisition optimized for the highest standards. The MicroQ is an ultra-mobile measurement device for process-oriented, connected testing. Ready to use at any time, it collects physical data of the highest quality at your fingertips, standalone or triggered.

- Maximum signal integrity and data quality
- Compact, with all functions on board
- Sustainable power management
- Interaction with PAK cloud



Integrated Standard Features	
-----	2x CAN FD
-----	2x Tacho (20 ns / 1 MPulse/s)
-----	GPS
-----	WLAN Antenna
-----	PoE and PTP
-----	S-Port for connecting speed sensors, etc.



Dimensions Weight	172 mm x 251 mm x 53 mm Weight: ca. 2.1 kg (depending on channel configuration)
Signal Quality	24-bit 102.4 kSa/s 204.8 kSa/s 819.2 kSa/s Calibration (incl. ISO/IEC 17025)
Shock	40g @ 11 ms duration (according to MIL-STD-810G Method 516.6, Procedure I)
Vibration	0,1 g ² /Hz from 10 to 2000 Hz (according to MIL-STD-810G Method 514.6, Procedure I)
Network Communication	Gigabit Ethernet (45 MB/s) WLAN (802.11b/g/n)
Integrated Memory Capacity	128 GB SSD
Synchronization	PTP IEEE 1588-2008 GPS Synchronization
Interfaces	Notebook connection through Ethernet port for data, PTP and PoE Interaction and configuration via smart device
Modularity	2 slots for various input modules for acquiring voltage, vibration, acceleration, sound pressure, force, temperature, speed, pressure, strain
Power Management	Built-in Li-Ion battery, optional external battery (hot-swappable for uninterrupted measurements), intelligent device power management
Docking Station	Charging the MicroQ batteries Automated data transfer between PAK cloud and MicroQ

Supported Software

PAK capture for measuring. PAK 5.x for visualizing data – online and offline.

CONTACT DETAILS

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