

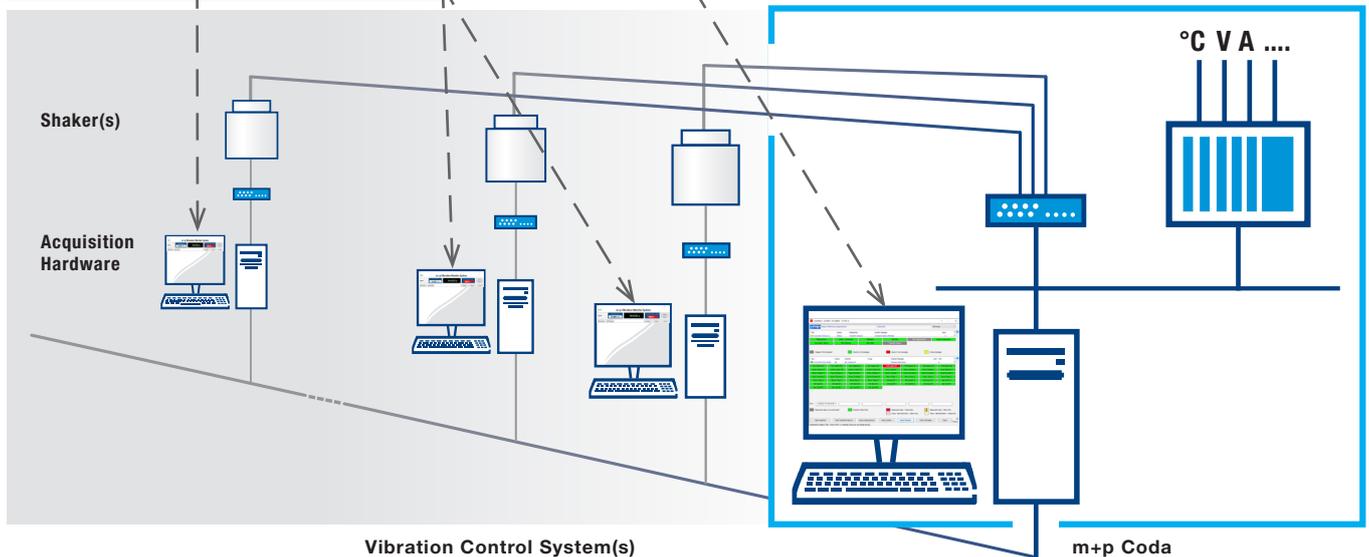
m+p Coda

Vibration Monitoring System

With m+p Coda, m+p international supplies a digital monitoring system which ensures full protection of your high-value test items and shakers regardless of the controller manufacturer. In critical vibration testing applications, there is a need to monitor signals that are independent from feedback measured for control purposes. m+p Coda is such an independent specimen protection system which guarantees a safe testing environment without influencing the vibration control task and system performance.

Key Features

- Centralized data acquisition server
- Applicable to any vibration control system
- Extendable to multiple shakers and sensors
- Support of many hardware platforms and signal types
- Sampling rates up to 204.8 kHz
- Alarm and Abort functions by digital I/O
- All data can be viewed online and remotely via network



Exemplary setup

A self-contained server runs m+p Coda service (Fig. 1 right). Data acquisition hardware is installed to acquire e.g. ambient data at a slow rate as well as high sampled vibration data from different shaker test stands. All acquired data is stored on a common time base on the m+p Coda server, allowing operators to review this data in real-time. During runtime all data is constantly monitored for prescribed alarm and abort limits providing an additional safety layer by triggerable events e.g. a shaker shutdown. Due to m+p Coda network-based server-client architecture, any subset of data can be streamed from the server to a client. This allows for a compact vibration monitor on the client PC informing operators about the status of individual test stands. Data acquisition is independent of the test stands DAQ system, thus providing crucial information on the test specimen before, during and after the test.

m+p Coda is ...

... scalable

Support of many different hardware platforms such as m+p VibRunner, m+p VibMobile, m+p VibPilot, VTI EX xxxx, NI hardware, CAN, USB, Ethernet. The open architecture allows to easily adopt and integrate any third-party hardware.

... safe

Due to the network-based server-client architecture m+p Coda is the ideal solution for centralized fail-safe data acquisition, independently monitoring processes widely spread around a plant or laboratory.

... reliable

All data is kept in a circular buffer allowing for continuous data storage as well as triggered storage before, during and after an alarm/abort condition. All data from all channels is available for documentation and post-processing.

... versatile

Support of many different sensor types: acceleration, displacement, pressure, temperature, DC values, strain, force, current, gas flow and electrostatic radiation. Sensor types can be mixed by combining different hardware platforms. This allows you to select the ideal signal conditioning for the sensor types to be monitored. The powerful SQL database supports this mixing of signals as well as data grouping: The grouping function allows for filtering by equipment location, sensor type or connected hardware, which is extremely helpful for data management of mixed signals.

m+p international

Founded in Hannover, Germany in 1980, m+p international develops and manufactures test and measurement systems for vibration control, dynamic signal analysis, data acquisition, process monitoring and test stand engineering. Our product reputation and broad experience coupled with valuable user feedback have led to significant market share in numerous key industries worldwide.

The company has its headquarters in Hannover, Germany with sales/marketing subsidiaries in New Jersey (USA), England, France and China, along with representatives and agents in many countries.



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