

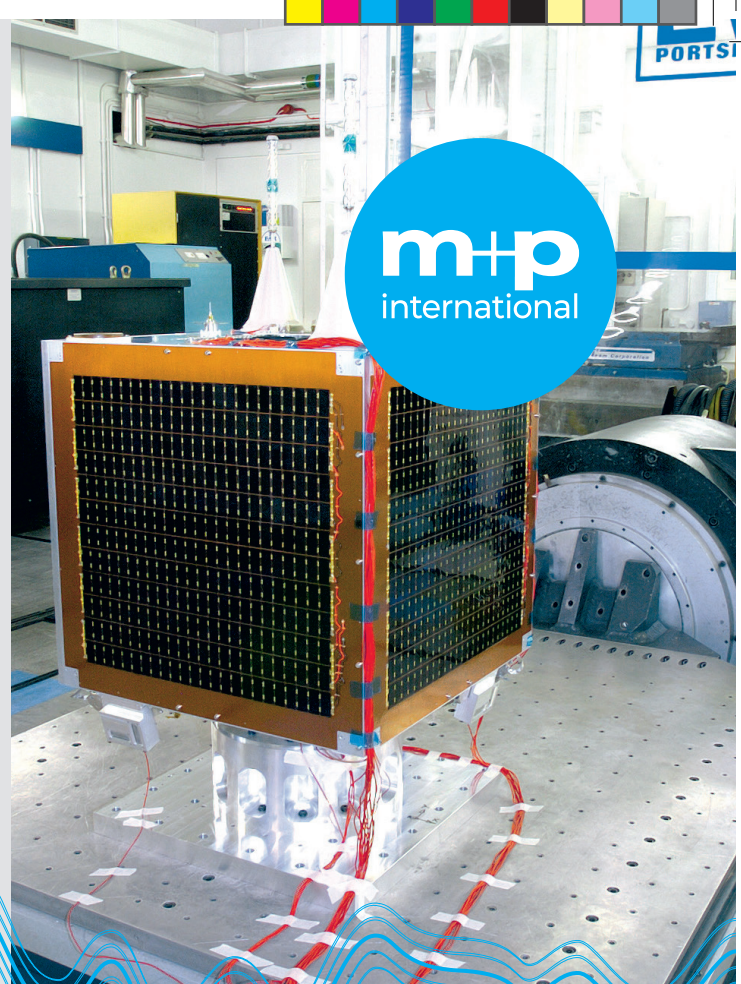
m+p Coda

Structural Monitoring Keeps Your Shaker Test Safe

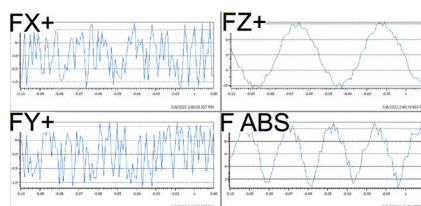
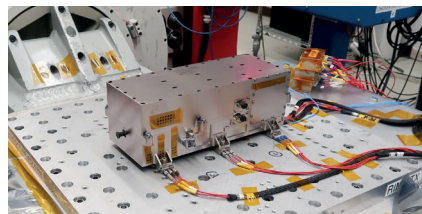
m+p Coda data acquisition software protects your test specimens, shakers and facility equipment. It reliably monitors structural and operating conditions and allows you to take the right actions in time. Our application experts provide you with a turnkey solution that can serve flexible testing requirements.

m+p Coda adds an additional safety loop to your testing. It independently overwatches structural loads and the equipment's status for correct operation.

In case of critical events, **m+p Coda** takes measures preventing damage, up to shutting down the test safely.



System-01	Sensitivity	1000 mV/V	3.802 V	Limit	4 V	Reset	Bypass
System-01-Peak	Sensitivity		3.656 V	Limit	5 V	Reset	Bypass
System-01-RMS	Sensitivity		3.776 V	Limit	1 V	Reset	Bypass
System-02	Sensitivity	102 mV/g	37.275 g	Limit	4 g	Reset	Bypass
System-02-Peak	Sensitivity		33.670 g	Limit	4.52 g	Reset	Bypass



Reliable Shaker Tests – Protected by an Independent Safety Loop

m+p Coda VibMonitor runs an independent safety loop in parallel to the shaker's vibration controller using dedicated hardware. Monitor not only structural data like forces and accelerations, but also have an eye on amplifier temperatures or fan speeds. In case of a malfunction, the controller's safe shutdown can be triggered. The safety loop is always reliable, no matter which controller you use.

Channel Processing – Get the Information You Need

m+p Coda lets you group channels, assigning a custom name and displaying the data based on your selection. Quickly assess component vibration levels. The ChannelCalculator makes easy work of processing the data into virtual channels online. Create force vector amplitudes or apply bandpass filters. Safety measures apply to all channels, physical or virtual.

Data at a Glance – Take Actions at the Right Time

m+p Coda features user configurable data displays to provide clear data overview. Channel specific warning and abort levels ensure specimen protection. Facility operators can quickly assess the test condition at all times, securing dependable operation.

Global Service Support – Help is always around the Corner

m+p international's network of service experts and partners provides fast remote and on-site support. Our comprehensive service offering allows you to keep your software up to date, achieve regulatory compliance, maintain high performance, and maximize uptime throughout the life cycle of your equipment.

m+p Coda for Structural Monitoring

- Real-time data acquisition and monitoring of acceleration, force, and many more
- Freely configurable warnings and aborts for protection against misconfiguration and defects
- Online analysis using the powerful ChannelCalculator, e.g. summation of force sensors
- Distributed measurement hardware with a flexible server-client architecture
- Automatic hardware configuration for fast and easy test definition
- Monitoring and automation with triggered event handling by analog and digital I/O and OPC
- Multilingual user interface in Microsoft Windows® style
- Data export to ASCII.TXT (.txt) and ASCII.CSV (.csv), Microsoft Excel® (.xls, .xlsx), Matlab® (.mat), m+p Analyzer throughput format (.sot) and Universal file format (.unv)

Data Acquisition

Channel count	2 to several thousand
Sampling rate	1 Hz to 200 kHz
Analog data	Strain, Acceleration, Force, Pressure, Temperature, Voltage, and more
Digital data	Any digital I/O signal
DAQ hardware	m+p VibRunner, m+p VibPilot, m+p VibMobile, National Instruments, VTI Instruments (EX 1629), as well as others on request
Communication interfaces	CAN, Ethernet, LXI, USB, OPC UA/DA

Key Features

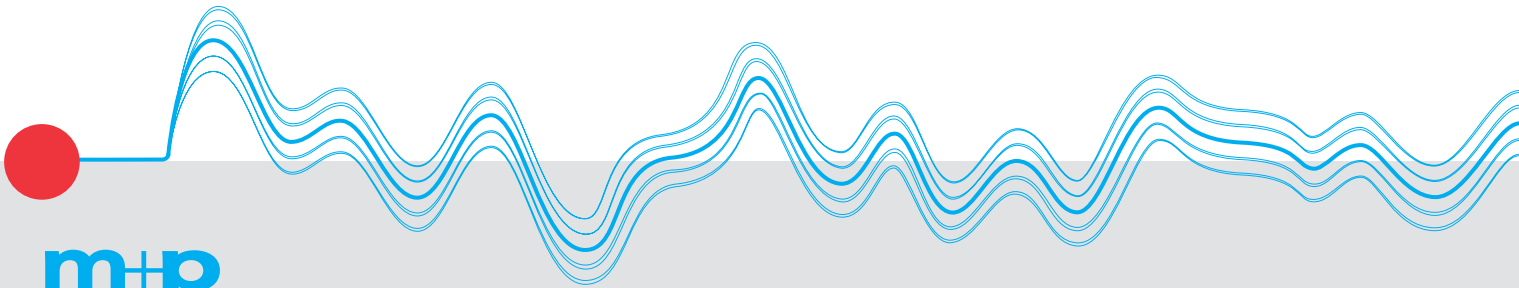
Force Summation of Triax Sensors

Calculate the resulting force amplitude from triax sensor data online in real time and add it as a virtual channel. Individual limit levels can be applied to virtual channels like any physical channel. React to the operating condition even faster.

Flexible Hardware Integration

m+p Coda supports all m+p data acquisition hardware as well as a broad range of hardware platforms. For comprehensive monitoring each data stream can be displayed at an individual sample rate and time frame. An m+p Coda monitoring system can be flexibly expanded and fitted to changing requirements.

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