

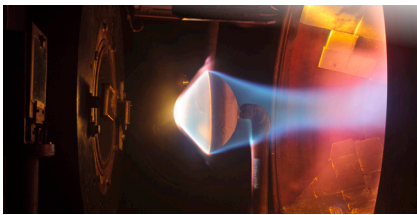
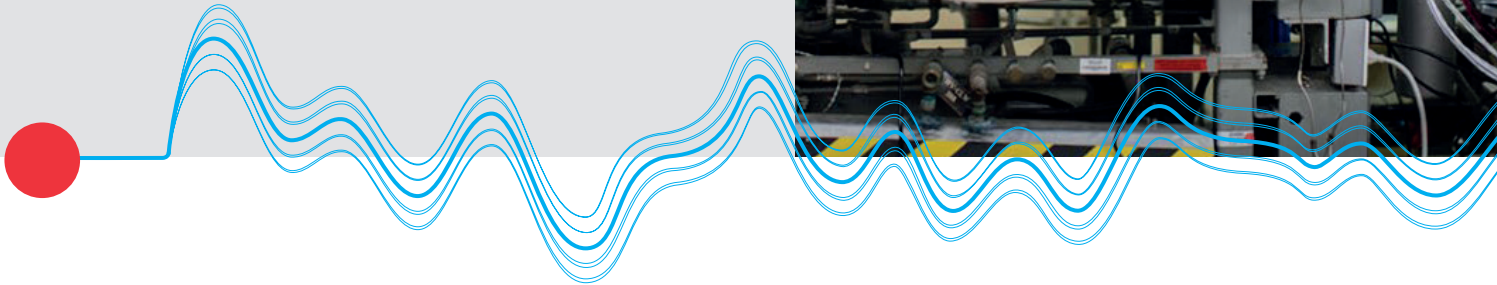
m+p Coda

Ensures Validity of Your Thermal Simulation Models

m+p Coda helps you to accurately simulate a specimen's final operating environment before reaching its final destination through thermal and thermal vacuum testing.

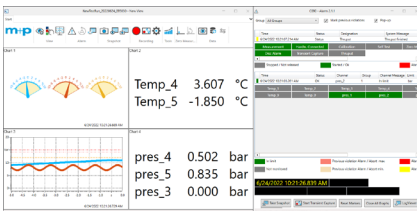
m+p Coda data acquisition software makes your thermal test reliable and compliant to specifications. It is suited from basic to complex tests including pressure and voltage sensors. Our application experts provide you with a turnkey solution that is ready for measurement.

m+p Coda is adaptable to changing requirements. Its support of distributed hardware and additional sensors delivers a scalable system fit to your measurement task, all without the need for specialized programming.



Thermal Model Verification – Extensive Data for Reliable Models

m+p Coda enables you to measure the data you need to verify thermal Finite Element models. Measure temperatures directly on the specimen's surface for post-processing thermal gradients in specialized software. The data can be accessed remotely on additional workstations or exported to a variety of data formats for third-party post-processing.



Data at a Glance – Ensures Compliant Testing

m+p Coda helps you ensure that the thermal test is compliant with regulatory standards. Its state-of-the-art user interface allows you to prepare, start, and run your test reliably, securing dependable operation. Real-time display of temperatures and pressures allows easy comparison with respective warning and abort levels.



Flexible Hardware Integration – Fits the System to the Task

m+p Coda supports all m+p hardware as well as a broad range of hardware platforms such as VTI and National Instruments. You can even mix sample rates for each instrument, making it easy to add additional voltage and pressure sensors to monitor the conditions experienced by the specimen during environmental simulation.



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 Thermal Monitoring

- Real-time data acquisition and monitoring of temperature, pressure, voltage and many more
- Online analysis using the powerful ChannelCalculator
- Distributed measurement hardware with a flexible client-server 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 | Thermocouples, RTDs, Pressure, Voltage, Acceleration, Force, Strain, and more |
| Digital data | Any digital I/O signal |
| DAQ hardware | m+p VibRunner, m+p VibPilot, National Instruments, VTI Instruments (EX10XX), as well as others on request |
| Communication interfaces | CAN, Ethernet, LXI, USB, OPC UA/DA |

Key Features

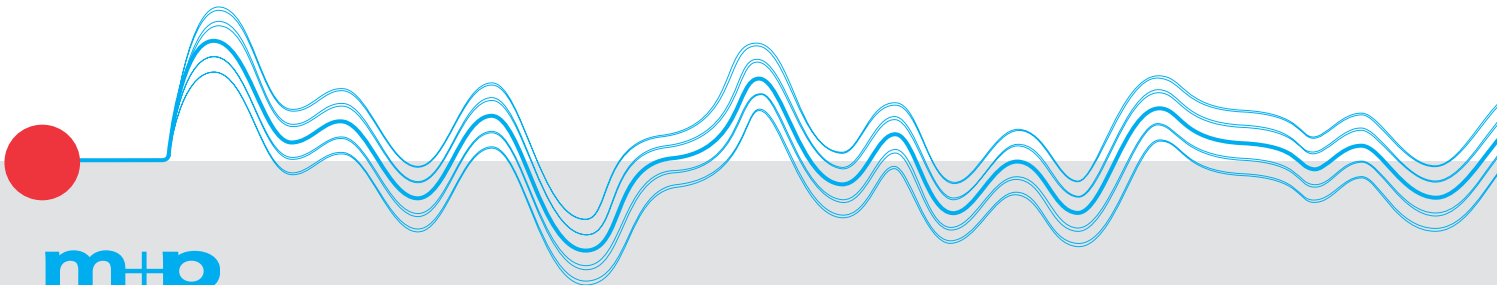
Additional Pressure Sensors for TVAC Monitoring

Connect additional vacuum gauges to the **m+p Coda** measurement system to monitor pressure directly on the specimen's surface or in the chamber. Safety measures alert operators using configurable warnings and abort levels ensure compliant testing.

Voltage Measurements for Specimen Functionality Monitoring

m+p Coda can measure specimen functionality during the thermal test. Closely watch servo drive voltages for extending antennas and solar panels. Configurable displays show the voltage data clearly side by side with the thermal data, each with individual sample rates.

m+p Coda, m+p VibPilot and m+p VibRunner are products of m+p international.
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