

NEW Ultra-Rugged Data Acquisition Family of Modules: SomatXR

Measure Anything, Anywhere!



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Built on proven technology and testing experience in harsh environments, HBM has developed the SomatXR family of data acquisition modules for use under extreme conditions. These modules are field-ready and can be used for an extremely diverse range of requirements and applications. Examples include off-highway vehicles used in construction, agriculture and forestry, civil engineering and energy for structural monitoring, and automotive and aerospace for field tests and mobile applications.

Outstanding Signal Conditioning

The first three 24-bit amplifiers released include the:

- MX1601B-R – measuring standardized voltage, current and IEPE/ICP[®] sensors on 16 individually configurable channels.
- MX1609B-R – K-Type thermocouple amplifier providing 16 individually configurable thermocouple channels.
- MX1615B-R – strain gauge bridge amplifier enabling up to 16 sensors or strain gauges in full, half or quarter-bridge configuration to be connected.
- Watch for additional members of the SomatXR family coming soon.

Robust, Sealed, and Rugged

SomatXR amplifiers were specially developed for measurements outside the laboratory, even under harsh ambient conditions. The modules are protected from water, dust, shock and vibration. All modules meet the IP65/67 degree of protection and can be used in the temperature range from -40 °C to +80 °C. Vibration resistance of 10g and impact resistance of 70g have also been confirmed through standardized tests.

Modular, Distributed, Scalable

You can mix any of the modules in any configuration, easily add or remove any SomatXR modules to meet testing needs, test using one or many modules, and place the modules close to the measurement points to improve signal quality and alleviate complex and messy cabling situations. In addition, you can have precise synchronization via Ethernet/PTPv2 over a distance of up to 100 meters.

Easy to Use Setup Software

No programming skills are required when running catman[®] software with the SomatXR for your test configuration. You have the ability to utilize TEDS (Transducer Electronic Data Sheet) for quick, easy and accurate test setup, and even customize your own sensor database. HBM's catman software offers powerful data visualization while collecting data, allows you to configure triggers based on any inputs, perform real-time math functions, and helps you validate the data after it has been collected.

[Click here for more information on HBM and its SomatXR Data Acquisition Modules](#)