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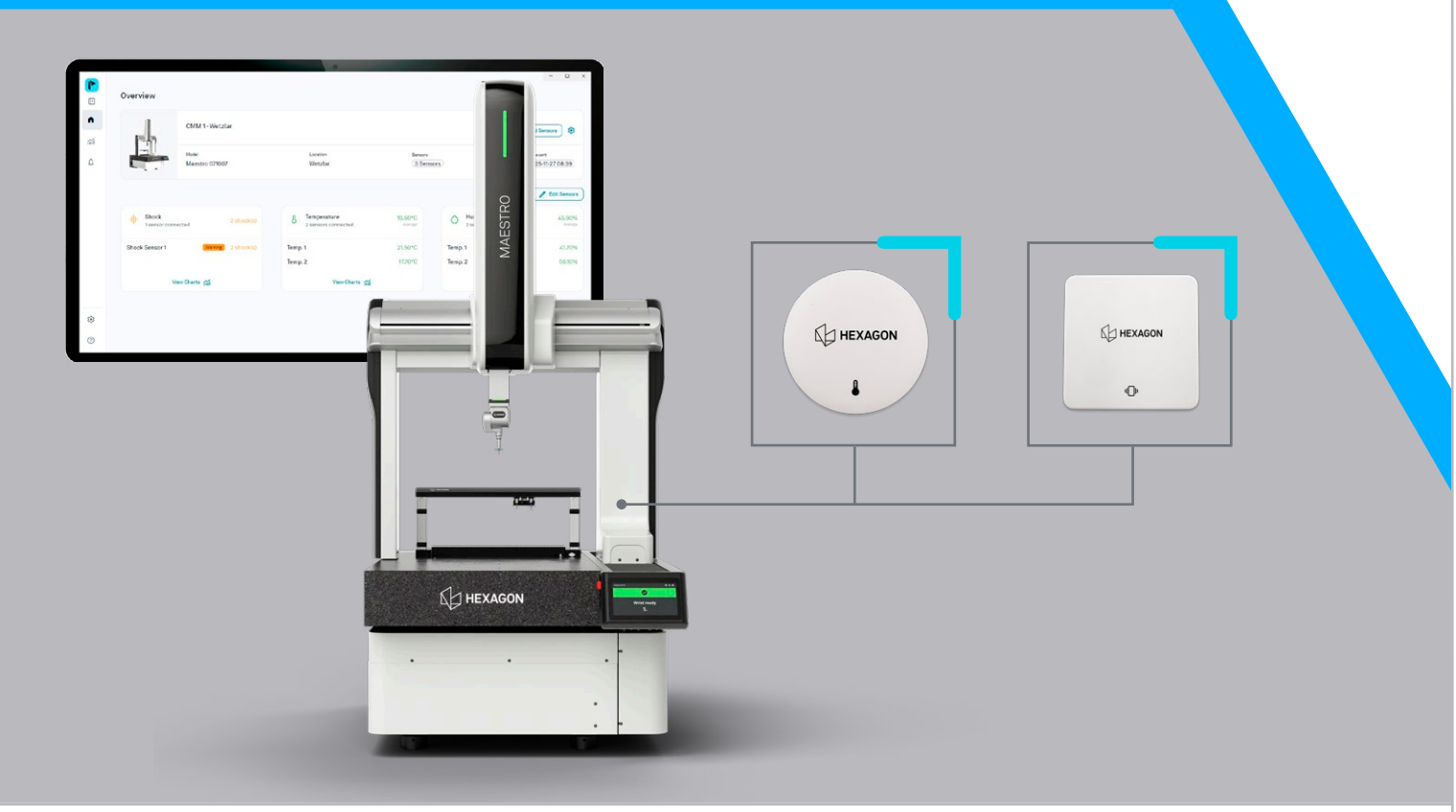
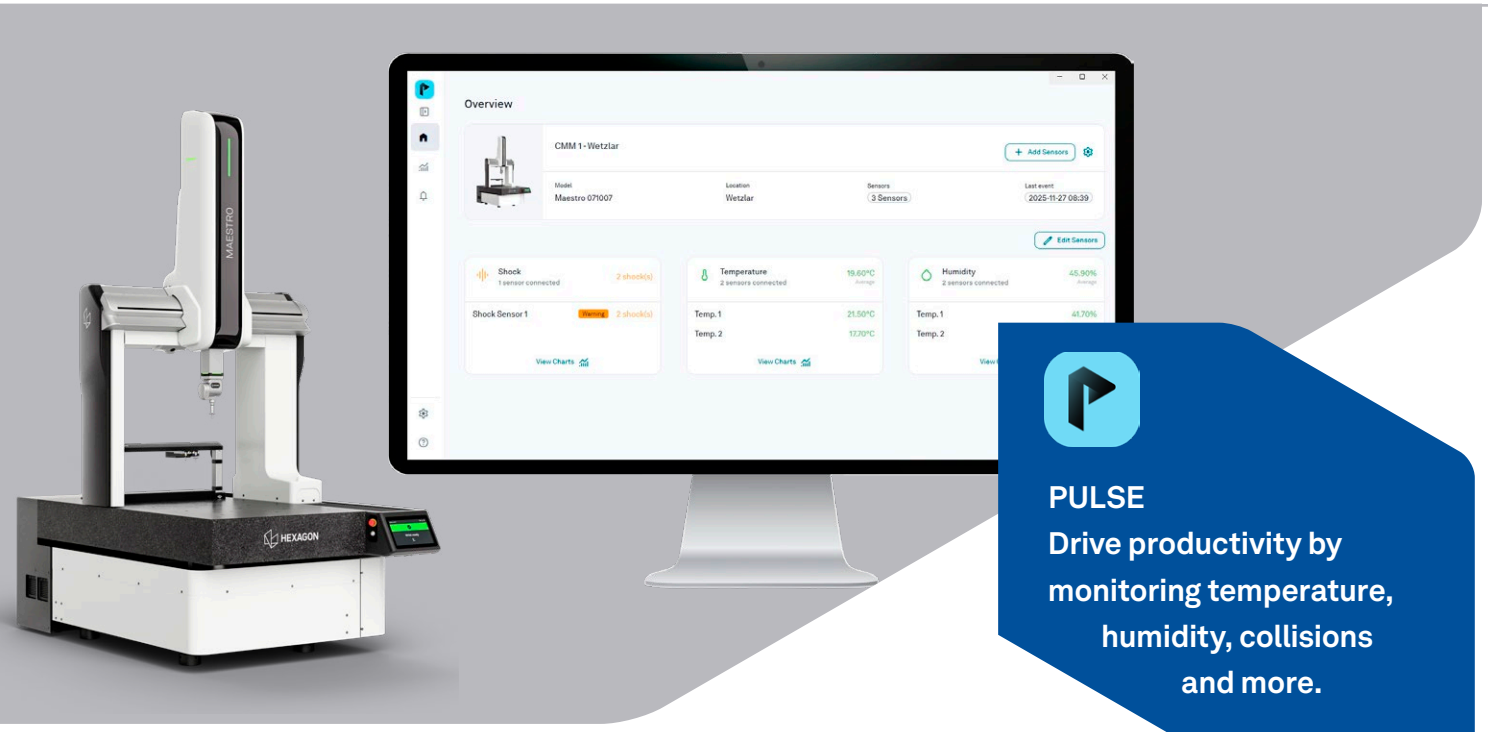


PULSE

Smart wireless sensors for condition monitoring

Compatibility with all Hexagon Measurement Devices + Open MQTT Interface. PULSE aggregates sensor data in a single, web-based dashboard per machine with real-time analytics, alerts and open interfaces.



PULSE
Drive productivity by monitoring temperature, humidity, collisions and more.

Sensing
Expand CMM awareness of external influences

Monitoring
Real-time notifications ensure that the CMM operates within its defined specifications

Efficiency
Prevent unreliable measurements due to unnoticed influences

Maintenance
Complement your data-driven asset monitoring insights and decisions

What is PULSE

PULSE is a state-of-the-art smart sensor system designed for condition monitoring. It features retrofittable smart sensors that can be integrated into any coordinate measuring machine (CMM). These sensors monitor temperature, humidity, vibrations and collisions ensuring your machines operate within specified conditions and minimizing risks of unreliable measurement results by eliminating unnoticeable events such as probe collision.

Key features

- Wireless Integration: easily integrate and measure at any position with dedicated and intuitive software application.
- Quick Setup: start monitoring in just 5 minutes with the plug-and-play function.
- Critical Condition Alerts: receive immediate notifications for critical conditions due to temperature changes, humidity and collisions.
- Open Interface: central monitoring of all machines with real-time analytics, alerts and open interfaces to smart factory solutions (via MQTT)
- Additional sensors can be added to cover large CMM applications (gantry) or to monitor a larger area around the CMM.

Why Choose PULSE

Often, due to unmonitored environmental influences such as temperature fluctuations or collisions, there are unreliable measurements. CMM can also be, unintentionally, operated outside specifications influencing their performance and maintenance. PULSE is the ideal solution to keep you CMM or a fleet of CMM under optimal operational conditions.

Flexible solution with seamless data integration

- PULSE is compatible with all Hexagon CMMs
- Integrate PULSE into any system with its MQTT interface

Ordering

Part Number: H00069658
Part Name: PULSE Standard Kit

Delivery contents

- 2x PULSE Combined Sensor (temperature and humidity with mounting material)
- 2x PULSE Combined Sensor (vibration and collision)
- 1x USB Antenna
- 1x PULSE application software
- MQTT interface via Metrology Communication Interface (MCI)

Technical specifications

	PULSE Combined Sensor (temperature and humidity)	PULSE Combined Sensor (vibration and collision)
Humidity accuracy	+/- 2 %	–
Temperature accuracy	0.2 K	–
Temperature range	-10° C to 60° C	–
Power supply	1x Battery (3V / Type: CR2477)	2x Batteries (3V / Type: AAA)
Dimensions	ø 45 mm x 17.7 mm	56 mm x 56 mm x 12.7 mm
Radio Frequency	25 GHz	
Communication protocol	Wireless ZigBee	
Radio range	15 m	

HI-TECH METROLOGY

Since 1992 Hi-Tech Metrology has been a leading provider of high-precision measurement and metrology services with a reputation for accuracy, reliability, and innovation. We offer a wide range of solutions designed to meet the needs of our clients across a broad range of industries including defence, automotive, aerospace, mining, medical, and general manufacturing to name just a few.

Hi-Tech Metrology's head office operations are certified ISO 9001:2015 compliant, underscoring our commitment to delivering high-quality services, continuous improvement, and customer satisfaction.

Today Hi-Tech Metrology consists of three integrated business units to help and support clients with all of their measurement needs - Products, Services and Projects. All these business units form part of a unique Australian company, one that strives to provide the best possible outcomes to our existing and future customers.

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