

Your processes in safe hands



Better be safe. Safely be better.

Applications, areas of application and functionality

Process monitoring

- Tool monitoring (tool breakage, tool wear, tool missing)
- Collision detection
- Measuring of vibration, acoustic emission, force, power, and frequency to detect process irregularities
- Tools, also less than 3 mm in diameter
- Detection of micro-breakouts on cutting inserts
- Thread quality
- Strong fluctuations allowance
- Material differences (micro-cavities, inclusions, ...)

Process optimisation

- Detect unwanted deviations from the planned machining process
- Optimize processing and cycle times
- Effectively generate and read analytical data

Machine protection

- Collision monitoring
- Vibration overload detection
- Reduce costs by avoiding machine shut downs

Machine diagnostics

- Increase processing quality
- Process and cutting data optimization
- Detect wear of machine components
- Detect tool or spindle imbalance
- Predictive maintenance

Area of application



Extensions

SensorHub AD



Analog sensors

To expand the monitoring options with analog Montronix or third-party sensors

CNC-I/O module Discrete I/O wiring possible

AMP module / IFA module connection to amplifiers and sensors

- → Torque- and force sensor AT100
- → Broadband vibration sensor BV100
- → Force sensor RetroBolt-Mxx-ICA
- → Force sensor RetroBolt-Mxx
- → Strain measuring sensor StrainLink250DA
- → Power sensor PS200-NG
- → Analog third-party sensors max. +/- 10 V

SensorHub NX



Digital sensors

To expand the monitoring options with digital Montronix sensors

4 x RS485 connection for digital sensors

- → PulseNG 3-axis accelerometer
- → PulseNG M12 3-axis accelerometer
- → StrainLink250DA Strain measuring sensor
- → PS200-NG Power sensor

Hub DIO

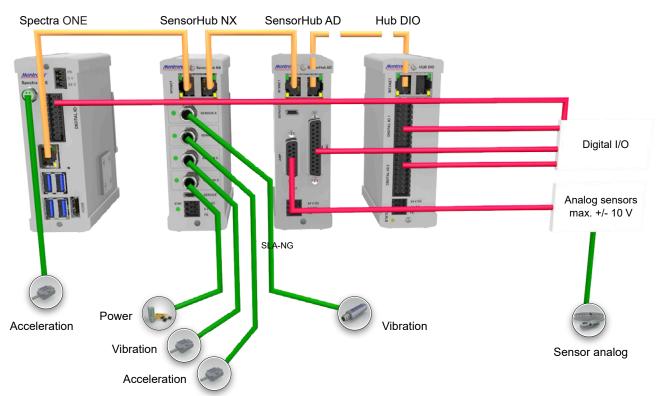


Diskrete I/O

To expand communication with the controller via discrete I/O

2 x 12 inputs and 4 outputs each

System overview



^{*} Example configuration

■ Represented throughout the world

Advice from a single source! From the first idea to the finished system

- Conception
- Installation
- Commissioning
- Training
- Optimization
- Service



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