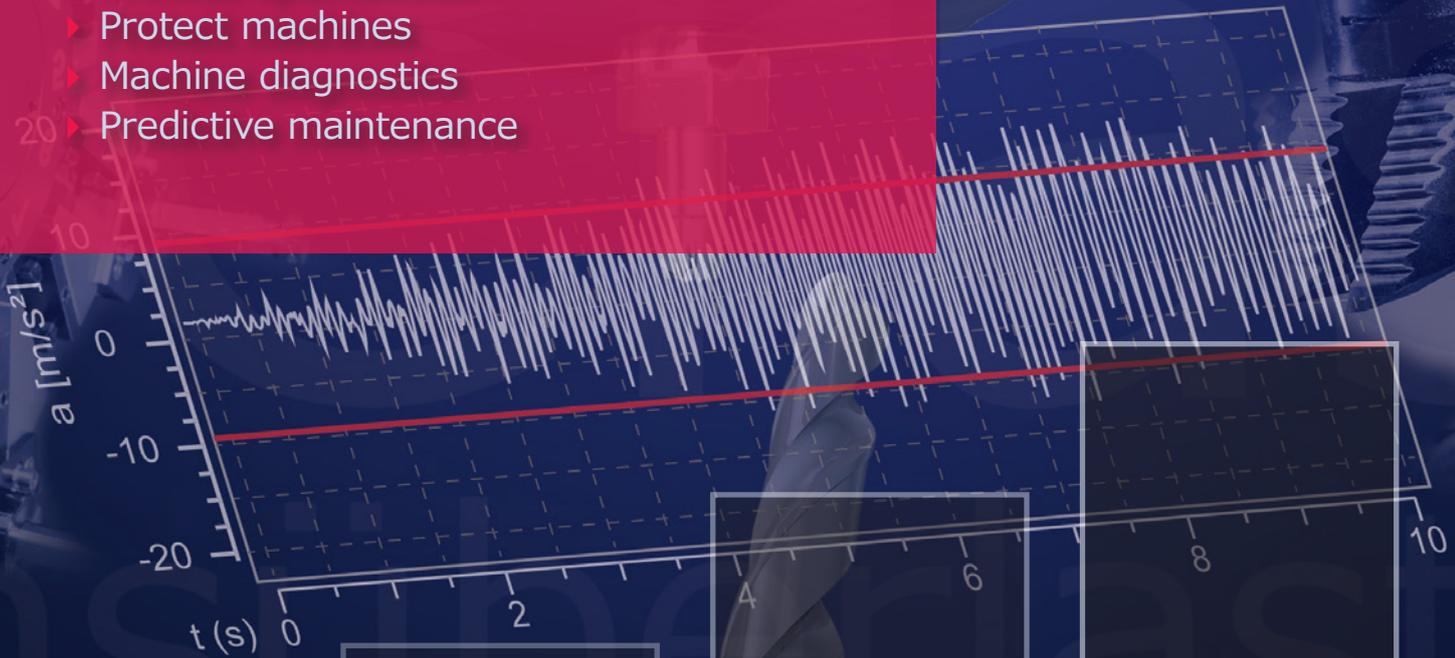


Your processes in safe hands

SpectraNG

- ▶ Process monitoring
- ▶ Process optimization
- ▶ Protect machines
- ▶ Machine diagnostics
- ▶ Predictive maintenance



Light

Standard

Professionell

Ultimate

Better be safe. Safely be better.

Applications, areas of application and functionality

■ Process monitoring

- Tool monitoring (tool breakage, tool wear, tool missing)
- Collision monitoring
- Vibration, structure-borne noise, power, force and oscillation measurement for the detection of process errors
- 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 optimization

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

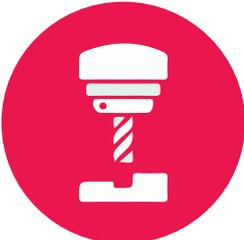
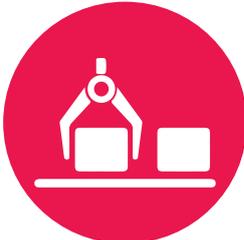
■ Machine protection

- 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

Drilling / Milling	Turning	Grinding	Handling
			

Extensions



SpectraNG versions	
Light	Digital sensors, expandable with SensorHub NX. Communication with the controller via discrete I/O
Standard 1 station	Analog and digital sensors, expandable with SensorHub AD and SensorHub NX.
Professionell 2 stations	
Ultimate 3-4 stations	Communication with the control via Profibus / Profinet

■ SensorHUB AD



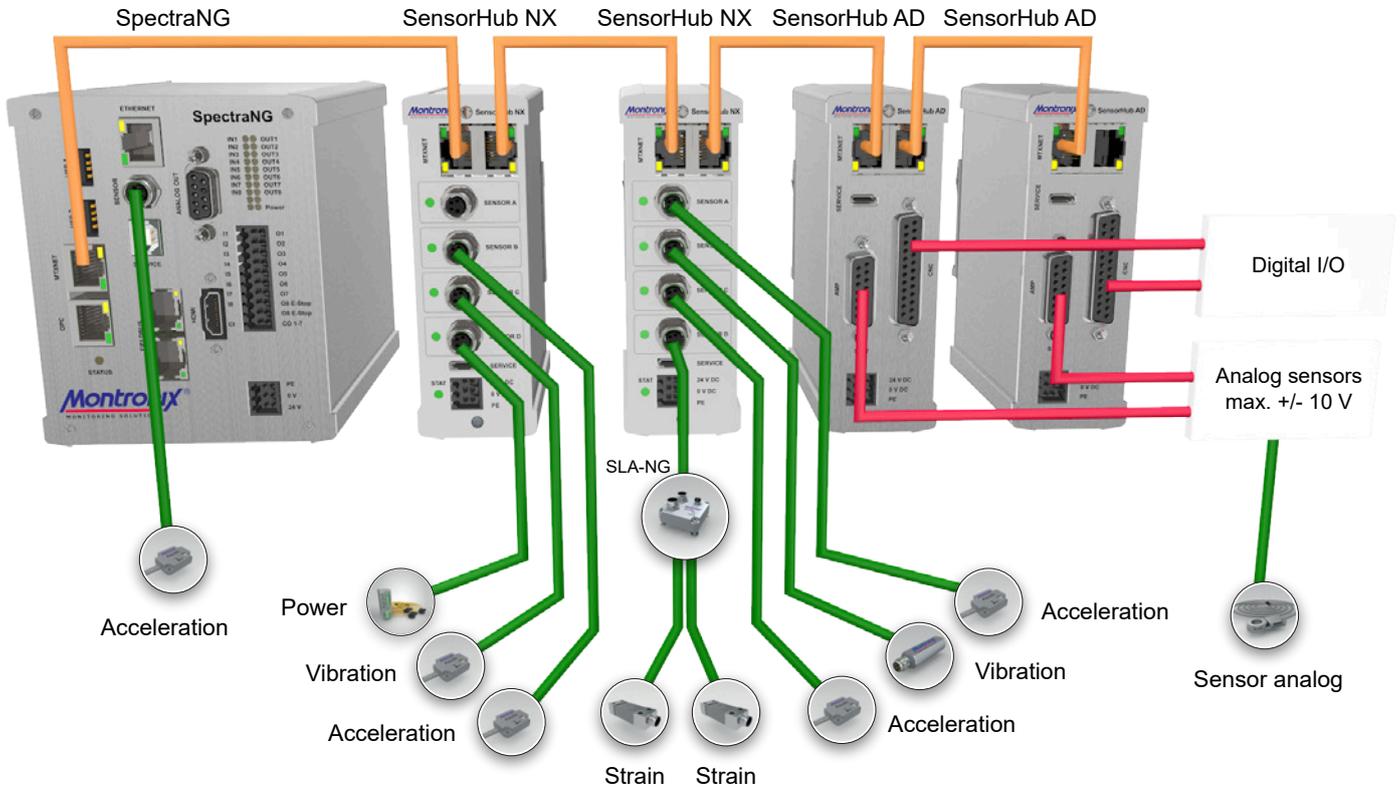
Analog sensors
To expand the monitoring options with analog Montronix or third-party sensors
CNC-I/O module Discrete I/O wiring possible
AMP module / IFA module connection to amplifiers and sensors
➔ Torque- and force sensor AT100
➔ Broadband vibration sensor BV100
➔ Force sensor RetroBolt-Mxx-ICA
➔ 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

System overview



■ Represented worldwide

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

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



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