



# NEW HART enabled field programmable vibration sensor

PCH420 transmitters seamlessly integrate with process control networks, eliminating additional infrastructure costs. Three programmable bands enable targeting of potential faults, improving equipment reliability.

## Smart data for smart decisions

Identifying slight variances in machinery performance can prevent serious defects such as bearing faults, gear defects, lubrication issues and pump cavitation. PCH420 sensors output reliable vibration data over HART networks, reducing the cost of maintenance and extending the lifetime of critical rotating equipment. Costly repairs and unplanned shutdowns can be avoided through real-time machinery data.

## Faster fault analysis

Three programmable frequency bands provide enhanced root cause analysis. The cause of excessive vibration can be quickly determined and appropriate process improvements can be implemented. Meggitt's unique sensor-based filter banding offers unparalleled monitoring capabilities. Pinpointing the specific causes of abnormal vibration enables time and cost effective maintenance decisions and eliminates any guesswork.

## Continuous communication

PCH420 sensors offer seamless integration to host automation systems enabling low-cost installations and remote monitoring capabilities. The need for lengthy and costly cable runs is eliminated through HART integration. The plug and play sensors offer streamlined vibration data that can be automatically retrieved without leaving the control room. Multi-drop installations enable up to 16 sensors to be monitored through a single address port. Vibration data can be made available with commonly monitored parameters such as temperature, flow, and lubrication.

- Scheduled: within a certain timeframe
- Alarm based: alert notification and cause
- On-demand: real-time diagnostic data

## Field programmability

Meggitt's new programmable transmitters allows vibration data to be accessed by HART enabled process controllers and information systems for better informed decisions and improved predictive diagnostic capabilities. A wide range of HART enabled PLCs and handheld communicators can be used to program filter band frequencies. The PCH420 sensor offers targeted characterization of potential faults for next generation condition monitoring.

## Features and benefits

- Single or multi-drop loop installation
- Three field programmable vibration bands
- Popular M12 connector
- Designed with HART 7.0 protocol
- Comprehensive 4-20 mA vibration data
- One sensor, wide range of usage
- Secure and reliable data through existing networks
- Connect up to 16 sensors through a single address port

