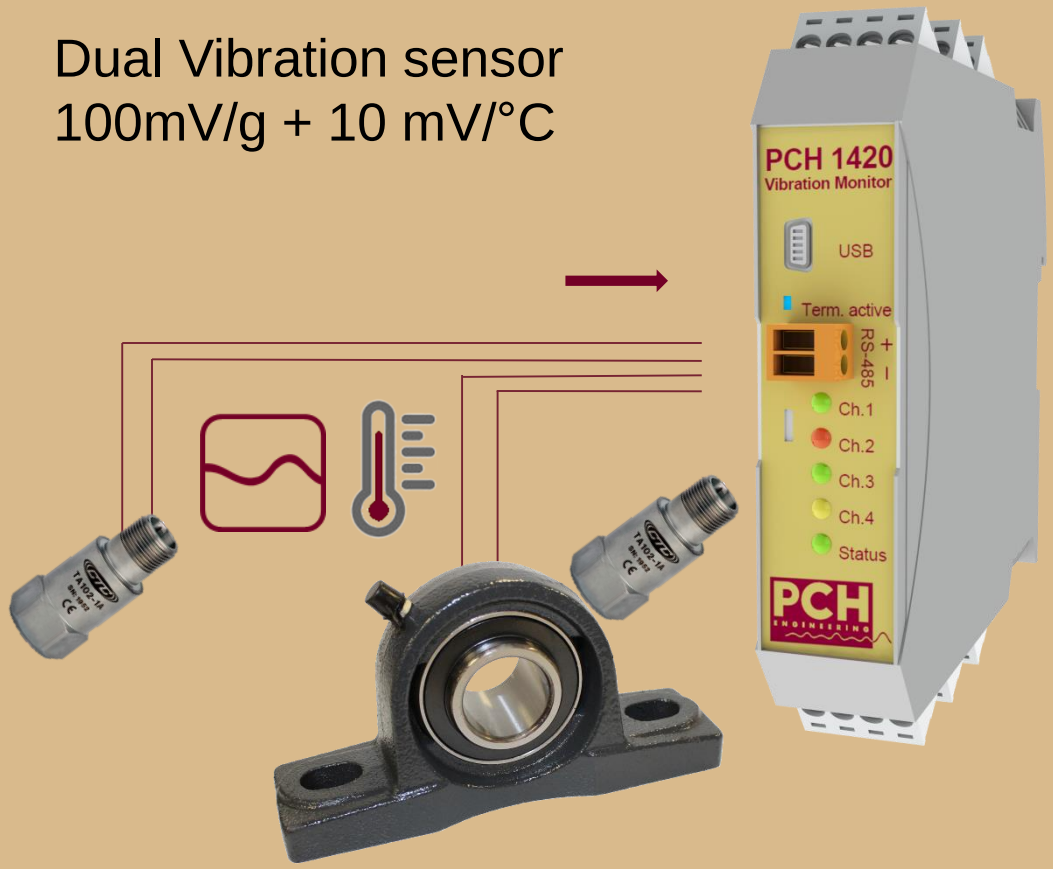
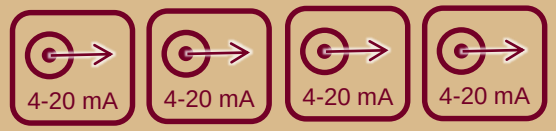
PCH 1420 Vibration Monitor

2 Input channels 100mV/g AC
2 Input channels 0-10V DC

Dual Vibration sensor
100mV/g + 10 mV/°C



2 Vib outputs, 2 Temp outputs



Redundant
safety relay,
ISO 13849

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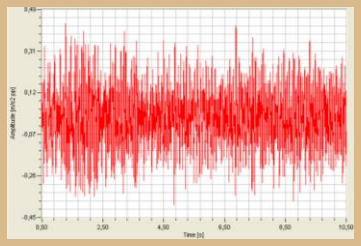
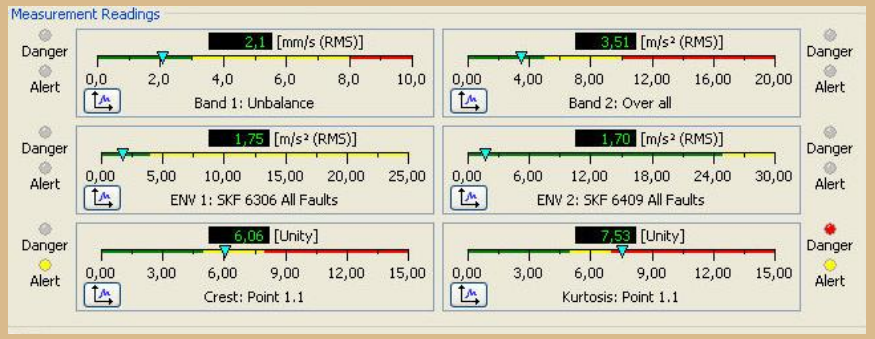
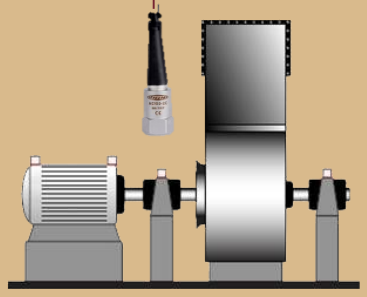
PCH 1420 Vibration Monitor

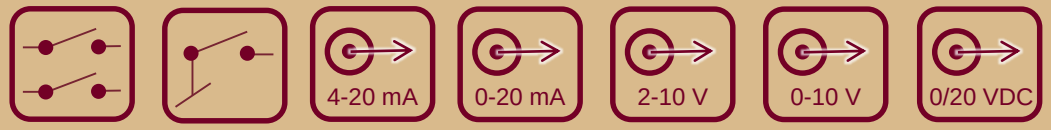


6 scalar values based upon time domain data from same sensor,
Note: 100 ms respons time API 670





Scalar values and alarms can be addressed freely to outputs



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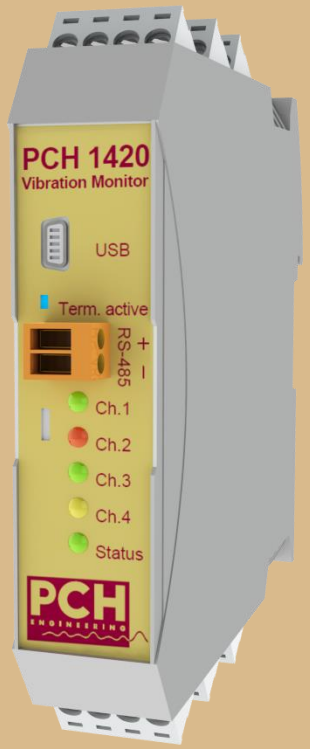
PCH 1420 Vibration Monitor



Each vibration measuring channel includes 2 configurable measuring bands:

Band 1: General vibration measurements	
Measuring range Vel + Displ.:	From 0.7 Hz to 1200 Hz
Measuring range Acceleration:	From 0.7 Hz to 10 kHz
Selectable detectors:	True RMS, Peak, Peak-Peak
Measuring parameters:	mm/s, m/s², µm, mm, mils

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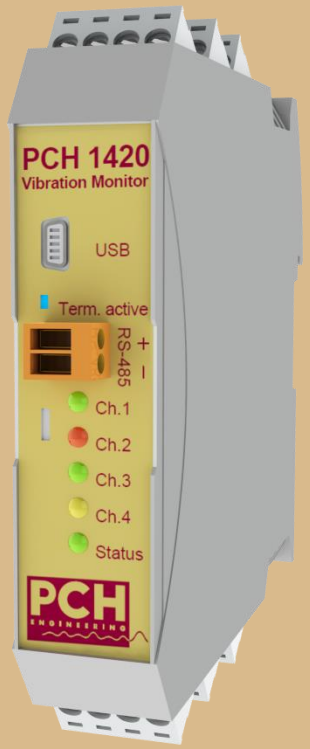
PCH 1420 Vibration Monitor



Each vibration measuring channel includes 2 configurable measuring bands:

Band 2: High frequency measurements	
Measuring range Acceleration:	From 0.7 Hz to 10 kHz (over all)
Roller bearing fault detectors:	2 x Envelope 1-500 Hz, Crest and Kurtosis factor
Selectable detectors:	True RMS, Peak, Peak-Peak
Measuring parameters:	m/s², g

Note: or configured as Band 1 without bearing detectors

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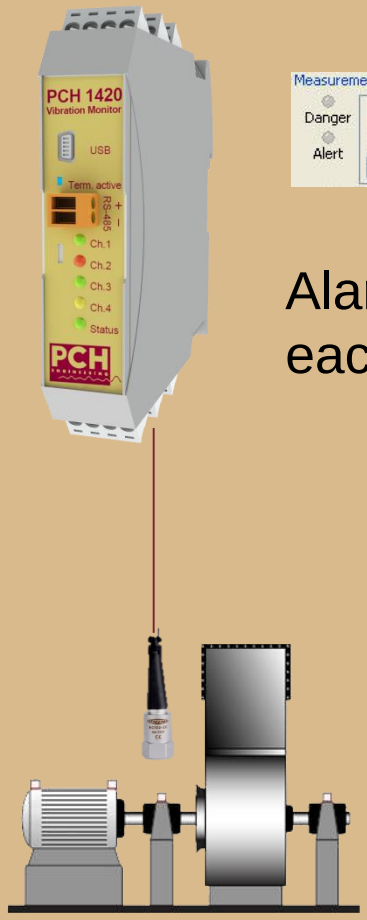
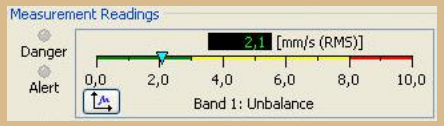
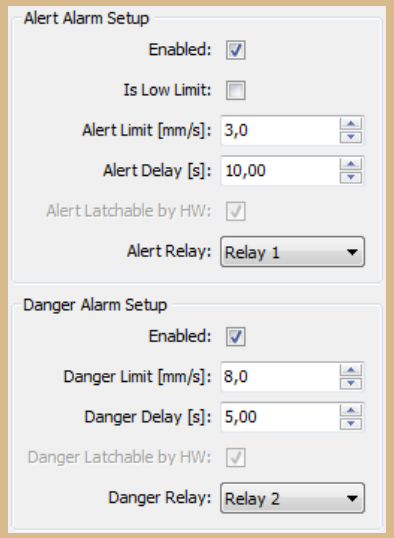
PCH 1420 Vibration Monitor

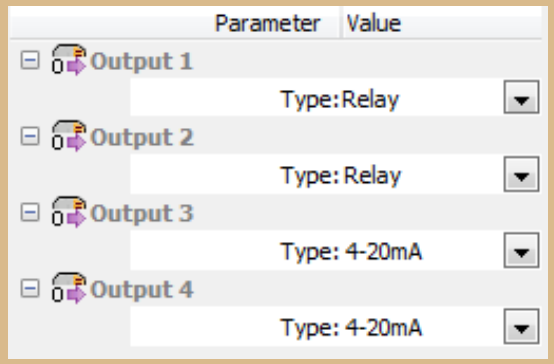




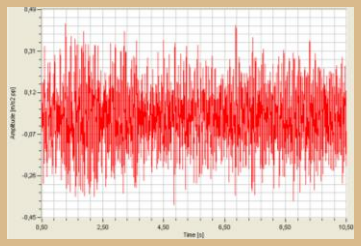
Alarm Setup for each scalar value

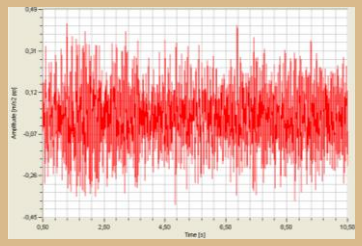


Configurable Outputs



PCH 1420 Vibration Monitor



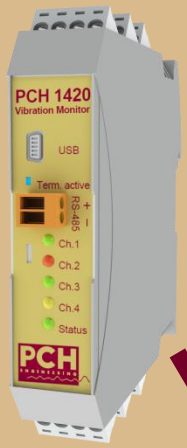


Tacho

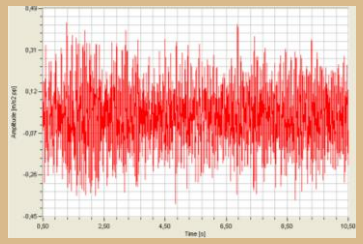
Pulse

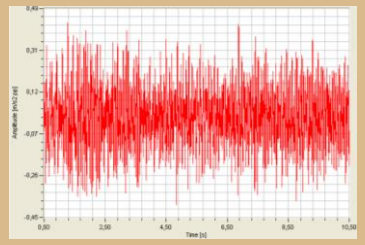
Process

Vibration



Time waveform recording up to 10kHz (realtime) on 4 input channels simultaneously





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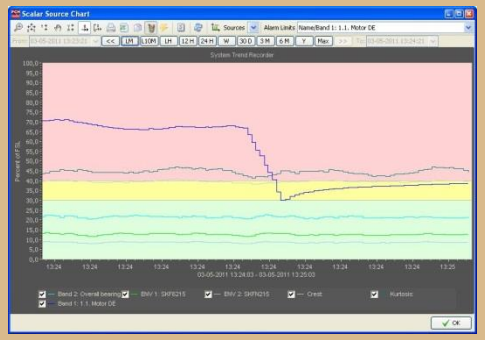
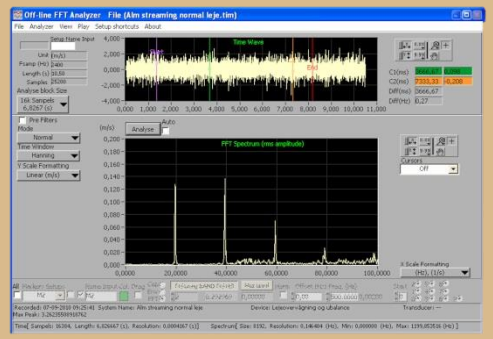
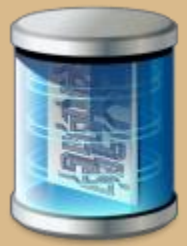
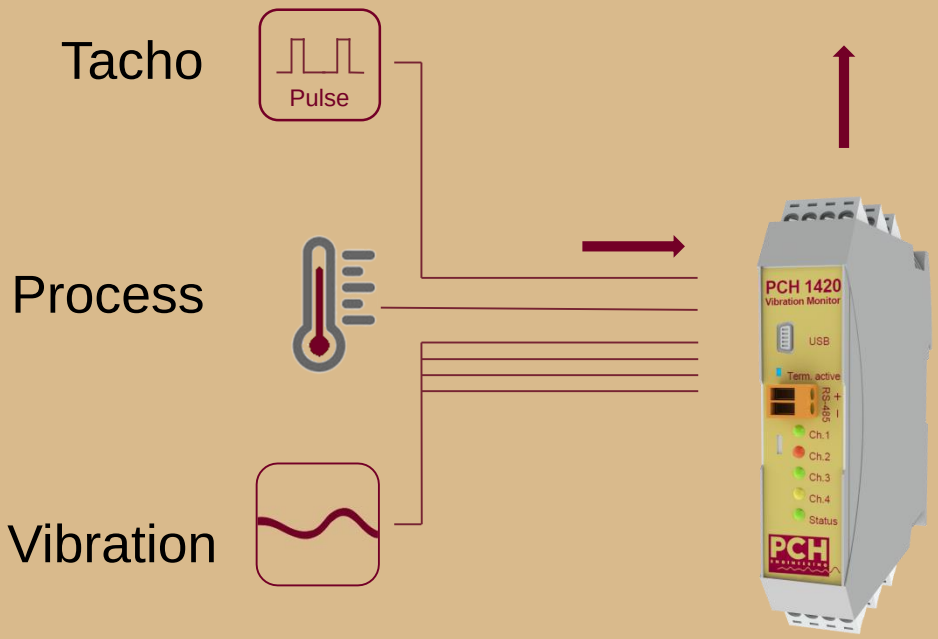
PCH Vibration Studio®









User software offers:

- Parameter setup and backup of monitors
- Trending of several scalar values in the same chart
- Data storage
- Offline analysis of time recording

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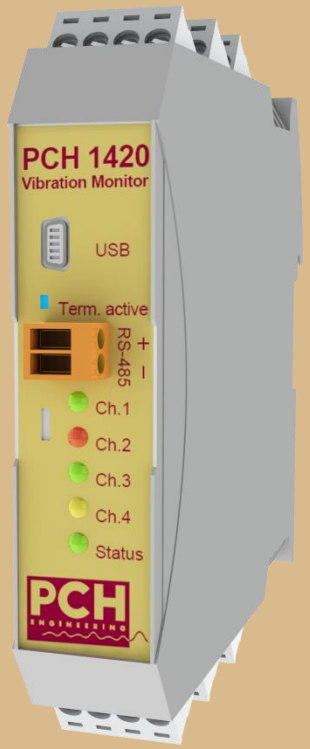
PCH 1420 Link Concept



The new protection concept from PCH:

- Expansion modules can be connected to PCH 1420 with common power supply and bus communication

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PCH 1420 Link Concept

PCH EtherBridge

- LAN connection for several PCH monitors
- Modbus TCP / RTU
- OPC UA server
- Storage media for local data logging
- Remote access through 3G connection(option)

PCH 1420 Link Concept

PCH Relay Box

- 12 Relays (30V/100mA)
- Galvanic isolated
- Configurable through PCH 1420 PC interface
- Connected by DIN rail bus
- Failsafe (NO as non-energized)

PCH 1420 Link Concept

IP 67 casings available

- EMC glands in aluminium or polycarbonate housing
- Fibox 200/175 XT(outer dimensions 255x180x175)
- PCH W25 casing

24V DC power supply for DIN rail available