System for early damage detection

Noise & Vibration Guard NVG
What is NVG?
DeVeTec has created a complete system with Noise & Vibration Guard (NVG) for monitoring and detecting potential damage to machinery at an early stage and minimizing economic risks and consequences.

Basic module (NVG 15.1):
- Data collection of up to 15 monitored channels
- A trigger channel for speed calculation and determination of reference point
- Four pot.-free outputs for lifebit, warning, regulated disconnection and quick-stop
- Up to 15 vibration sensors
- An industrial PC (electrical control cabinet installation) with watchdog function

Functions of NVG:
- RMS (loudness) of min/max monitoring
- Amplitude of min/max monitoring
- Crest factor of min/max monitoring
- Triggered signal monitoring

Application fields:
- Combustion engine
- Steam engine
- Electric motor
- Pump
- Compressor
- Generator
- Gearbox
- Etc.

Advantages/Benefit of NVG:
- Monitoring of signs of wear and tear
- Early detection of potential damage
- Prevention of capital loss and consequential damages
- Optimization of maintenance costs
- Data archiving
- Tracking archived data through trend curves
- Low acquisition costs

Operation/Evaluation:
- Comfortable self-learning function (One-Touch)
- Event monitoring of time point
- Variable alarm and switching thresholds
- Trending for wear detection
- Export to Excel
- Extensive diagnosis possibilities
evaluation unit
- 24/7 operation
- industrial standard
- watchdog with autoreset
- no ventilator (no dust problem)
- ethernet (profinet/modbus)

data collection
- 24/7 operation
- industrial standard
- up to 100 kHz sampling rate (optional up to 1Mhz)
- real simultaneous sampling
- 15+1 standard channels
- modularly extensible
- decentrally applicable (e.g. WLAN)

sensors
- robust and durable sensors from motorsport
- optional IEPE or traditional PIEZO technology
- reference trigger for determination of an “event” in time
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