

System for early damage detection



Noise & Vibration Guard NVG



Highly efficient power generation
from waste heat

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:

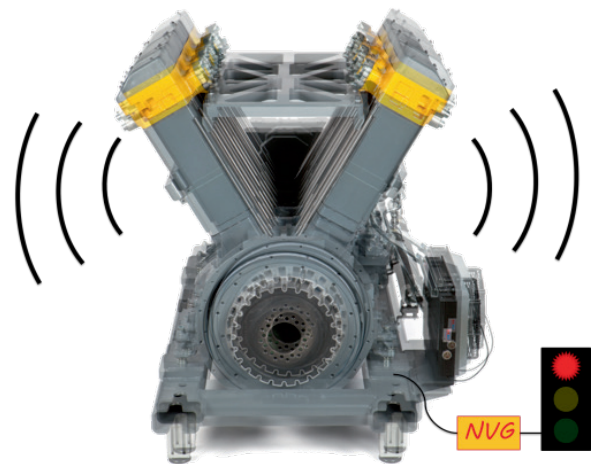
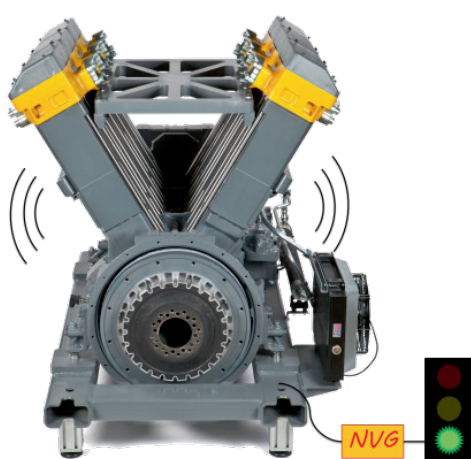
- ✓ combustion engine
- ✓ steam engine
- ✓ electric motor
- ✓ pump
- ✓ compressor
- ✓ generator
- ✓ gearbox
- ✓ etc.

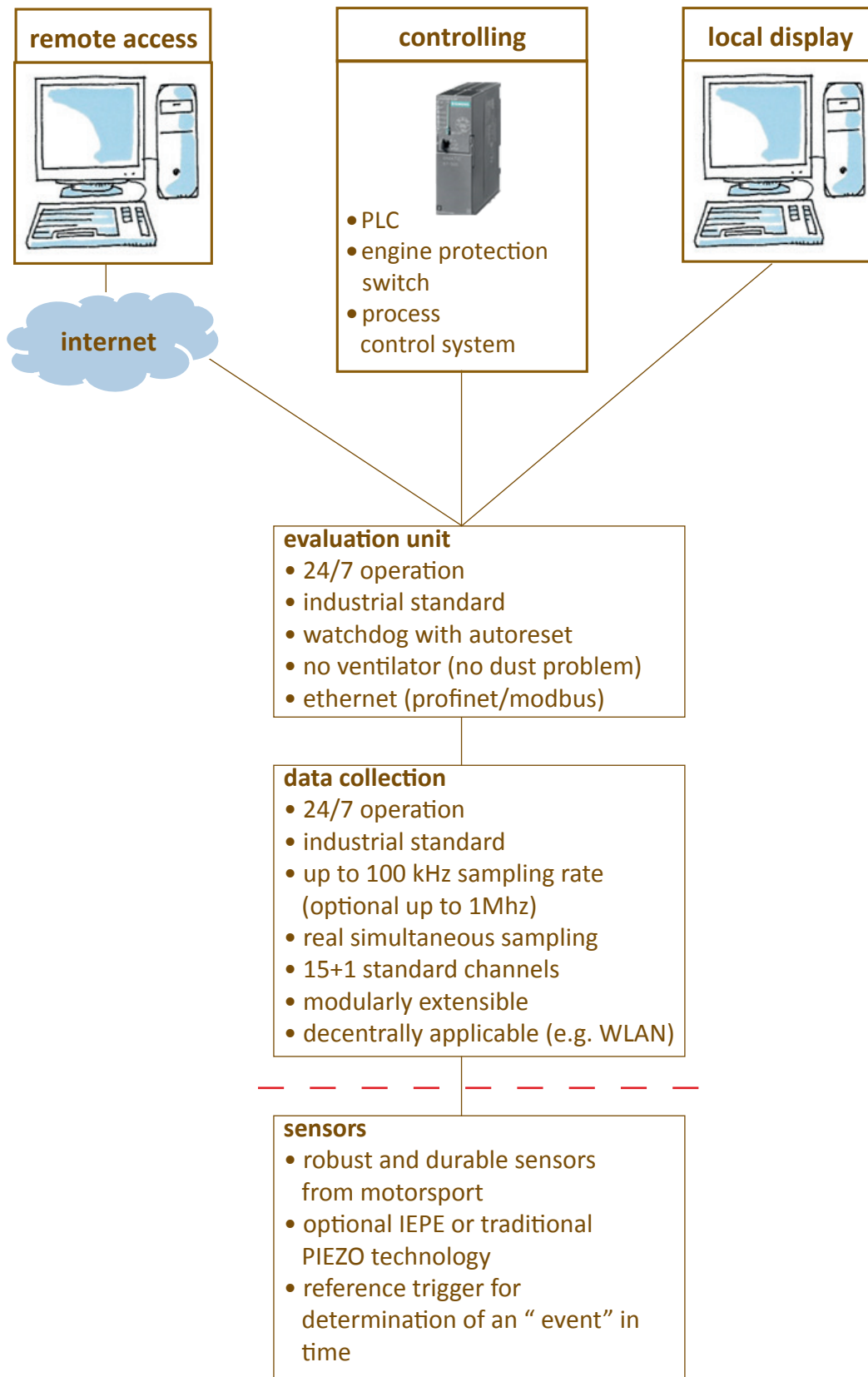
Advantages/Benefit of NVG:

- ✓ 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





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