



QuickCheck

Vibration testing software for in-line process control

Product brochure



Efficient industrial process control

QuickCheck offers flexible, high performance solutions to modern industrial production processes striving to maintain a competitive edge through improved product quality, production efficiency and throughput.

Process monitoring – semi or fully automatic

Modern industrial production processes are held to high standards in regards to product quality, production safety and profitability. Being a multi-channel, PC-based analysis software, QuickCheck offers both an effective and flexible solution for the surveillance in semi- or fully automatic production processes.

The QuickCheck diagnosis package includes soft- and hardware that capacitates the evaluation of measurement signals from different vibration sensors, the control of testing procedures and the communication with the process controller.

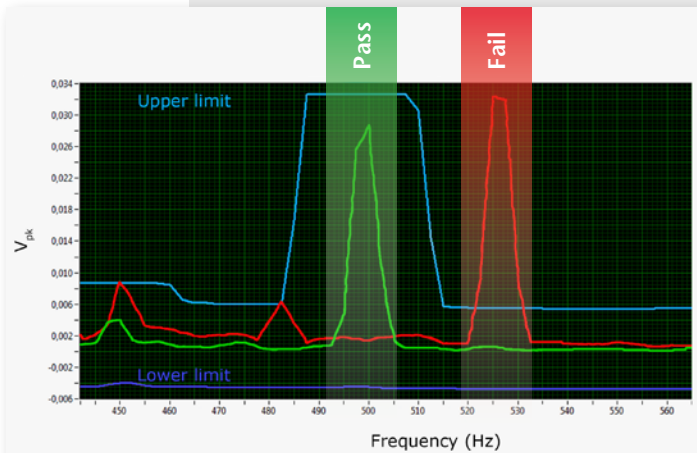
Geared up for industrial production processes:

- Noise and vibration testing
- Material testing
- Flaw (crack) testing
- Strength testing
- Operational vibration analysis
- Process control

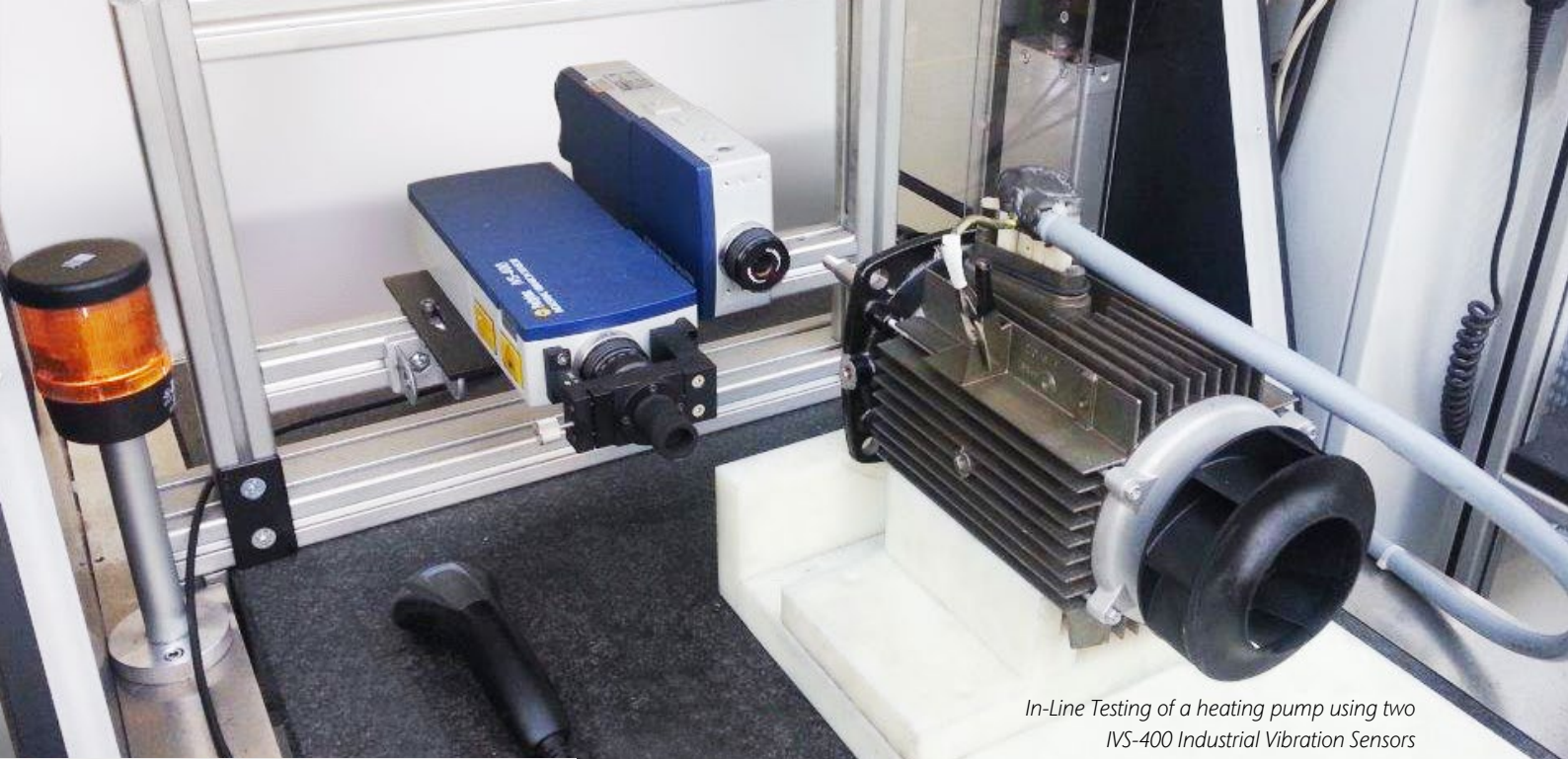


Highlights

- 100% in-line quality inspection (traceability of results; ISO 9000 series)
- Clear Pass/Fail indication in the time and frequency domain
- Individual test parameters, test algorithms and limits
- Saves test data and communicates with the process controller
- Flexible sequence control
- Fully automatic changeover between different product tests



Easy Pass/Fail Analysis



In-Line Testing of a heating pump using two IVS-400 Industrial Vibration Sensors



QuickCheck offers a user interface with the following features:

- Configurable 1 to 4 quadrant display
- Threshold analysis
- Configurable data acquisition, trigger functions, evaluation algorithms and limits related to different test types
- Type-specific parameter and algorithm management
- Manual or automatic change-over between different product types
- Calibration module
- Multiple testing of the same test sample possible with different test parameters

Product specific programs

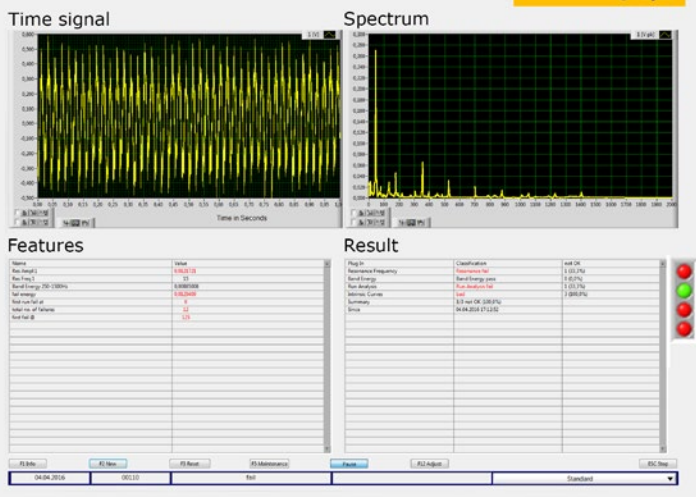
QuickCheck contains a configurable sequence controller for monitoring the sensor functions, triggering data retrieval, driving vibration exciters and handling systems on the test stand. Measure reactionless with Polytec IVS-400 Industrial Vibration Sensors, the CLV-2534 Compact Laser Vibrometer and integrate microphones or conventional contact accelerometers. Testing different products using the same test system is supported by product dependent parameter and algorithm management.

User-friendly and application-oriented

QuickCheck can be optimized for every area of application by presetting a suitable user interface. The measurement is started manually or automatically, either with a trigger or a programmable logic controller (PLC). To display the measurement signal and the analysis results, up to four windows can be defined and displayed, offering the following views:

- Measurement signal (time signal, spectrum, spectrogram)
- Spectrum chart (spectra across several measurements)
- Classification statistics or feature values
- Classification results and threshold value classification
- Feature history and classification statistics

Fan Measurement





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