



SonicTC QuickCheck (Plus)

Diagnostic software for acoustic quality inspection

Product brochure



Efficient industrial quality inspection

SonicTC QuickCheck is a flexible tool for acoustic and vibrometric measurements in the context of industrial quality inspections. Its varied fields of use range from series production to in-process development.

Fully and semi-automatic process monitoring

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

The software is optimally designed to evaluate the measurement signals from different vibration sensors, to control testing procedures and to communicate with the production management system.

Ideal for industrial production processes:

- Vibration and noise testing
- Materials testing
- Flaw (crack) testing
- Strength testing
- Operational vibration analysis
- Process control

The PLUS for advanced integration

With SonicTC QuickCheck PLUS, the software includes additional functions for in-depth industrial quality inspection, such as order analysis, homomorphic transformation (cepstrum), frequency position monitoring, SQL database exporting and a signal generator. Hardware interfaces, such as Profinet and Profibus, are supported too.

PC-bound turn-key solution

For new or separate workstations, SonicTC QuickCheck is also available as a PC-based option ready for immediate use.



Highlights

- 100% quality inspections (traceability of results; ISO 9000 series)
- Clear Pass/Fail indication in the time and frequency domain with filter and cut functions
- Individual test parameters, test algorithms and limits
- Saves test data and communicates with the production management system
- Flexible sequence control
- Fully automatic changeover between different test items
- Digital data interface for Polytec laser vibrometers

Product specific programs

The software enables configurable sequence control for monitoring the sensors' functions, triggering data retrieval, controlling vibration exciters and controlling provision and transport systems on the test bench. Non-contact laser Doppler vibrometers, such as the IVS-500, are recognized by the software via the digital interface. The interface enables direct vibrometer control and measurement data transfer – without any need for additional data acquisition hardware. You can easily integrate other sensors too. Different types are tested on the same inspection system by means of type-dependent parameter and algorithm management.

User-friendly and application-oriented

SonicTC QuickCheck or QuickCheck PLUS impresses with its user-friendly operating and programming interface, which can be optimally adapted to any area of use. Measurement is started manually or automatically, either with a trigger or by using a programmable logic controller (PLC). Depending on the software version, communication can take place via interfaces such as RS-232, Ethernet, Profinet or Profibus. Various views



Ball bearing test bench with an IVS-500 Industrial Vibration Sensor

are available to compare individual measurements or sets of curves with the analysis results:

- Measurement signal display and evaluation (in the time signal and spectrum)
- Spectrum chart (spectra across several measurements)
- Various filter functions
- Classification statistics or feature values
- Classification results and threshold values
- Progression of characteristics and classification statistics

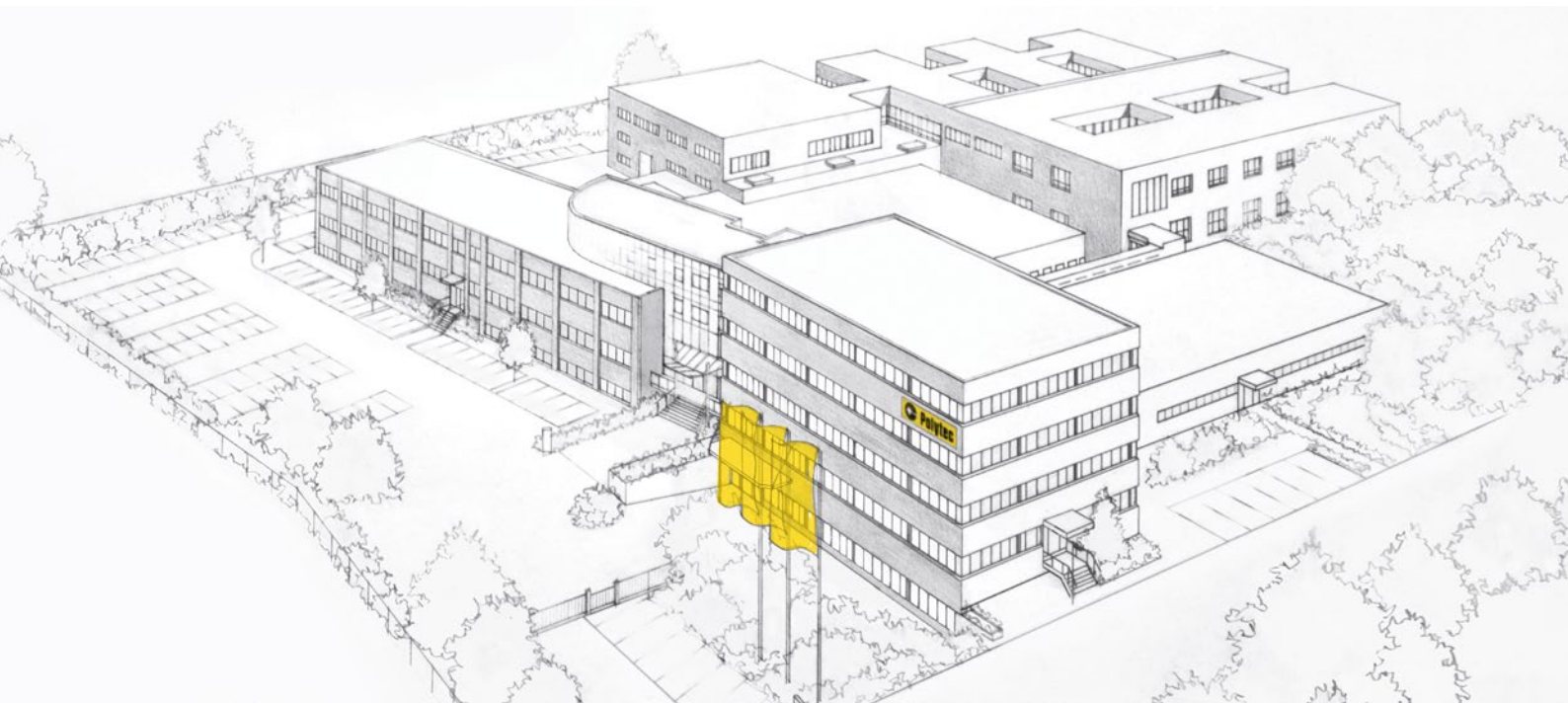


The user interface offers the following features:

- Graphic sequence programming
- Selection of different test views
- Threshold analysis
- Simple configuration of data acquisition, trigger functions, evaluation algorithms and limits – even for different test types
- Type-specific parameter and algorithm management
- Multiple test item inspections with different parameters



SonicTC QuickCheck preinstalled on PC-M Data Management System Mini, space-saving mounted on the monitor, with keyboard and mouse.



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