db ® PRÜFTECHNIK

VIBXPERT® II
FFT Data Collector & Signal Analyzer

- **Fast data acquisition**
- **Powerful diagnostic tools**
- **Easy to use**

The *time is now*

Turn to PRÜFTECHNIK for innovative and proven technology

Driven by its motto – 'proven maintenance technology' – PRÜFTECHNIK has launched the VIBXPERT® II, the latest vibration data collector and signal analyzer based on sophisticated and refined technology.

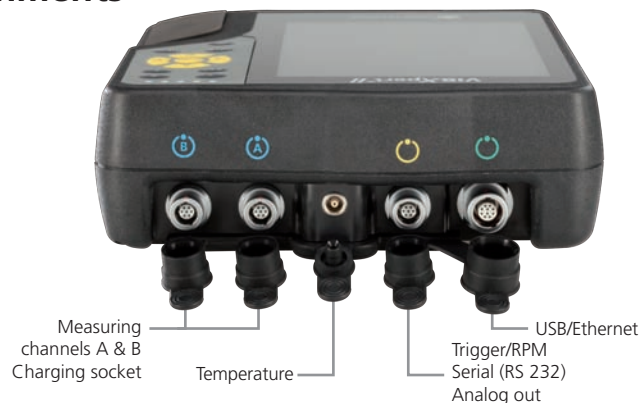**A brilliant display yet long periods of use – VIBXPERT® II makes it possible!**

VIBXPERT® II combines the proven features of its predecessor with the advantages of rapid processors and a brilliant energy-efficient color display. It demonstrates that the use of powerful components does not rule out low power consumption.

VIBXPERT® II is ...

▶ **Intuitive** to operate on its graphical user interface and effective use of color.

▶ **Fast** thanks to optimized measuring workflows and advanced processor technology.

▶ **Ergonomic** with a handy design and brilliant color display.

▶ **Powerful** due to many practical analysis functions and measuring templates.

▶ **Long-lived** with a long battery life and a large data memory.

Interfaces for industrial environments

Five industrial-proofed interfaces that are colored for easy identification connect to a wide variety of different sensor types and data links.

Measuring channels A & B
Charging socket

Temperature

USB/Ethernet
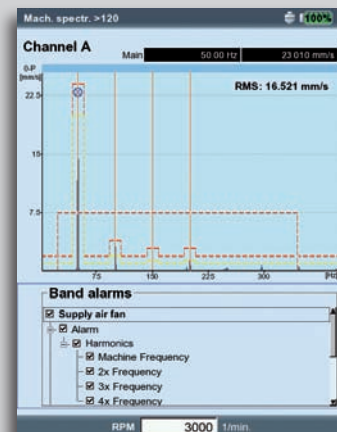Trigger/RPM
Serial (RS 232)
Analog out

Simple to use with a wide range of applications

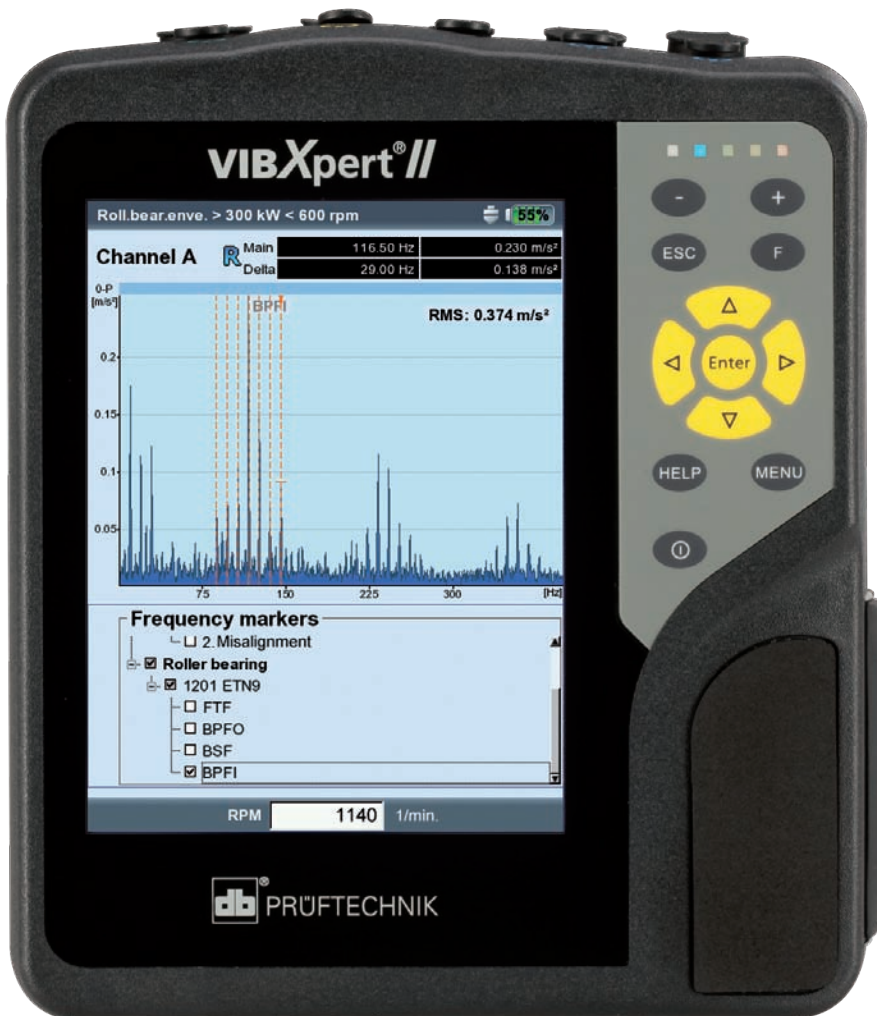Meaningful icons offer guidance in selecting the measurement task.
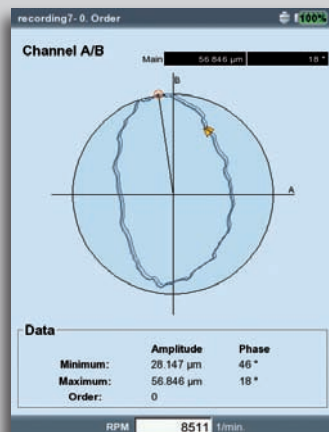
Shaft vibration analysis with orbit, static shaft position and runout.

Narrow band and broadband monitoring of characteristic frequencies in the spectrum.

Title: Waterfall diagram for visualizing resonances.

Ergonomic and user-friendly

Envelope spectrum of roller bearing inner race damage (BPFI)
with identified side bands.

Status LEDs
▶ Traffic light display for the evaluation of
results according to the ISO standard or
user-defined alarm thresholds
▶ Device and battery status

Ergonomic keyboard
▶ One-thumb operation
▶ Illumination automatically adjusts to
ambient light
▶ Non-slip grip

Brilliant color display
▶ 18-bit TFT LCD
▶ VGA (480 x 640 pixels)
▶ Non-reflective
▶ Automatic switch-off

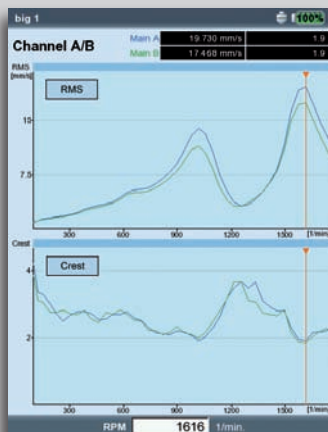**Sturdy housing**
▶ Light and compact
▶ Protection class IP 65

Large data memory
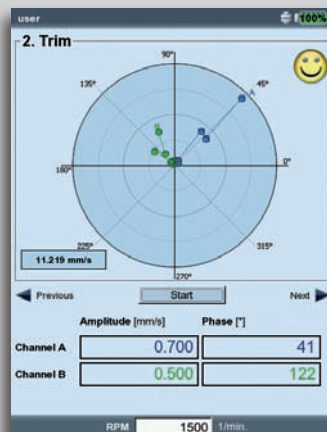▶ 2 GB CompactFlash card

Powerful Li-ion battery
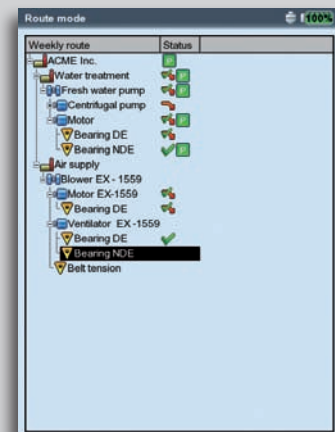▶ 8-hour operating life
▶ Exchangeable

Simple to use with a wide range of applications

One- or two-channel coast-down test
with RMS, amplitude or waterfall.

Field balancing in two planes. A 'smiley' appears
when the required balancing grade is reached.

Route-based data collection with a clear
display of measuring locations.

VIBXPERT® in brief

Versatile

Route-based data collection

Vibration diagnosis

One- or two-plane field balancing

Acceptance measurement with machine templates

Troubleshooting

Multimeter

Data logging

Visual inspection

Analysis in detail

Characteristic overall values & process parameters

Time waveform

Amplitude/envelope spectrum

Cepstrum

Phase, cross-channel phase

Orbit

Static shaft position

Runout analysis (shaft vibration)

Bump test

Coast-down/run-up test

Order analysis

Modal analysis

Operating Deflection Shape Analysis (ODS)

Transient capture

Long-term recording

Characteristic frequency markers

Signal post-processing

ISO standards for evaluation

Valuable additional features

Printing of measurement reports

Rugged hard case

Extensive accessories

Optional measuring functions that can be enabled by entering a password

OMNITREND® multiuser PC Software

OMNITREND® can be used to manage machine data, archive results in a database and enables the programming of measurement tasks and routes.

A wide range of evaluation and documentation functions are available. These are described more closely in the OMNITREND® brochure.
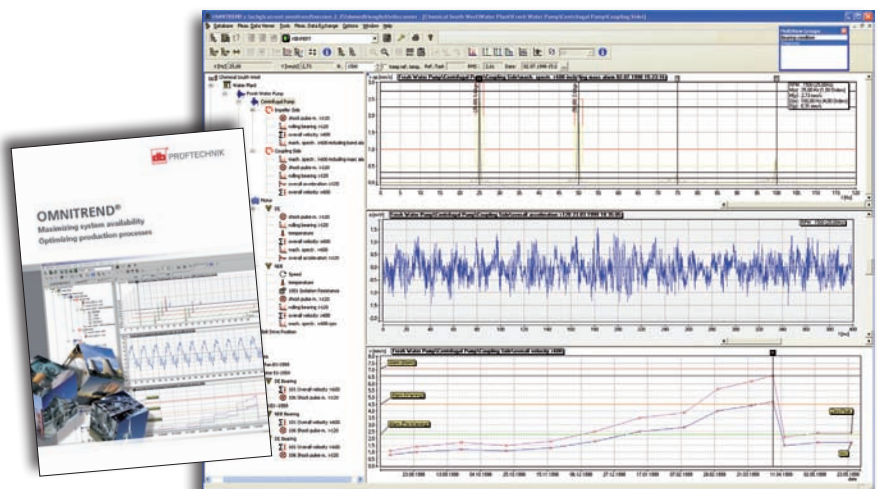
OMNITREND® supports the evaluation of collected machine data on a PC.