

# On the pulse



## VIBSCANNER® 2

High-speed data collector with triaxial sensor sets new standards

- Fast – Measurement up to 4 times shorter than industry standard
- Easy – Intuitive operation thanks to the graphical user interface
- ALL IN ONE – Comprehensive data collection at one push of a button





## KEEP IT SMART AND SIMPLE

This is the motto under which entire development of the VIBSCANNER® 2 was placed.

The result: A unique measurement device with which even untrained personnel can easily and effectively measure machine vibration on rotating equipment.

Thanks to its forward-looking measuring principle and data acquisition in three axes with the triaxial sensor, all the relevant condition information is collected at the touch of a button. And this at a speed that opens up fully new dimensions.

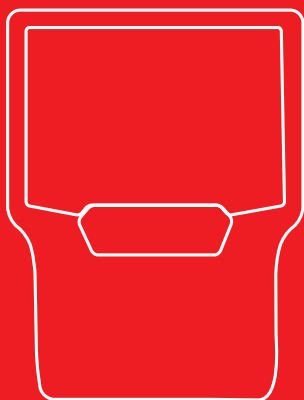
Not only in terms of measurement speed and precision is the VIBSCANNER® 2 a breakthrough, but also through its robustness and its intuitive operating concept.

The measurement routes are set up by the maintenance specialist and can be transferred independently of the software as a data file to the employee's device on site (e.g. via email). The employee loads the route onto the device via a USB cable and can begin measuring immediately.

The intuitive graphical user interface assists the employee in taking repeatable and error-free measurements. The device provides him/her with the exact information about the status of the measurement locations and the progress of the route.

Following completion of the measurement route, the results can be downloaded onto the PC and sent to the maintenance specialist by email. This means that the maintenance specialist is always provided with high-quality vibration and machine condition data, which he can analyze in the OMNITREND® Center software.

The bottom line: High-speed vibration measurement without any loss of data or quality while both the employee on site and the maintenance specialist save a great deal of time.



### Collecting and analyzing machine data efficiently

1. The maintenance specialist creates the measurement route
2. The measurement route is transferred to the VIBSCANNER® 2
3. The employee on site carries out the measurement route
4. The measurement data is transferred into the OMNITREND® Center for analysis
5. The maintenance specialist analyzes the data and initiates corrective measures.

# VIBSCANNER®2 – A METROLOGICAL EVOLUTION FROM EVERY ANGLE

Touch display: shock-proof,  
high-contrast, glove-enabled

Analog signal processing:  
synchronous, 3-channel,  
high sample rate

Parallel data processing for  
short measurement times

Automatic signal check  
ensures high data quality

Ergonomic design  
for fatigue-free work

One-button operation:  
measure quickly and  
with ease

Suitable for right and  
left-handers

10-hour battery life

Triaxial sensor records  
vibration signals in three  
axes simultaneously

RPM determination based  
on the vibration signal

Intelligent measurement  
location identification via  
RFID or VIBCODE® system

RPM verification with  
in-built stroboscope





## ALL IN ONE – COMPREHENSIVE DATA COLLECTION AT ONE PUSH OF A BUTTON

VIBSCANNER®2 is the high-speed vibration data collector of the next generation.

Depending on the filter settings, it measures overall values, spectra, and time signals synchronously in 3 axes. In combination with a triaxial sensor, VIBSCANNER®2 collects even more machine condition data per measurement location.

- Added value thanks to additional vibration data without affecting the measurement time
- Quick data acquisition thanks to synchronous measurement in 3 axes
- Clear channel assignment without any additional cable adapter

A triaxial sensor measures vibration in 3 perpendicular directions at once, while a single-axis sensor only measures in one direction at a time.

Certain conditions such as cocked bearing or a bent shaft can be identified in a single measurement with a triaxial sensor.

The bottom line: In combination with a triaxial sensor, VIBSCANNER®2 delivers even more comprehensive information per measurement location at the push of a button. This creates an overall image of the machine's health without affecting the measuring time.

“GKN guarantees top performance when it comes to machine maintenance and repair. In the same way, we need to be able to rely on our tools. The new VIBSCANNER®2 from PRUFTECHNIK is a top device on which we can fully rely. Never before have we been able to easily collect machine vibration as quickly and reliably. The new VIBSCANNER®2 doesn't reduce the amount of work we have, but it does mean that we work faster and more efficiently!”

Jakob Ortner, Head of European Field Services Sales , GKN Service International GmbH



## ON THE RIGHT TRACK – AUTOMATIC MEASUREMENT LOCATION DETECTION WITH VIBCODE®

Clearly identifying coded measurement locations – this is how VIBCODE® stands out.

VIBCODE® is the unique, intelligent and proven sensor system that detects its measurement locations automatically. VIBCODE® provides relevant and repeatable results for reliable condition monitoring as the measurement location, axis and contact pressure always stay the same.



## STAYING ON THE RIGHT TRACK MACHINE IDENTIFICATION WITH RFID TECHNOLOGY

Measurement locations that are not equipped with a VIBCODE® can be identified with the RFID reader.

The VIBSCANNER®2 displays the next measurement location with the position and measurement direction and ensures that no measurement location is overlooked, mixed up or incorrectly processed.



# TRACEABLE VIBRATION WITH OMNITREND® Center

OMNITREND® Center is PRUFTECHNIK's central Condition Monitoring software.

It assists with the preparation, evaluation and archiving of measurement tasks and has been optimized for VIBSCANNER® 2.

Its intuitive menu navigation supports the user with the configuration of measurement tasks and routes. Thanks to the pre-installed templates, the definition of the measurement locations is a walk in the park. In the clearly structured interface, measurement results can be retrieved and analyzed quickly.



## Technical data

| Hardware                             |   |
|--------------------------------------|---|
| Measurement channel, analog          | Z-channel (0 ... 50kHz): -20 ... +20V / IEPE / Linedrive<br>X/Y-channel (0 ... 10kHz): -20 ... +20V / IEPE                                |
| Dynamic range                        | 109.5 dB (total)  |
| Sampling rate                        | up to 131 kHz per channel   |
| Signal processing                    | 3 x 24 bit ADCs   |
| Display type                         | Capacitive touchscreen  |
| Display size                         | 10.9 cm (4 1/3")  |
| Color depth                          | 16 million colors   |
| Operation                            | Multi touch – gesture control   |
| Rechargeable battery                 | Li-ion / 7.2 V / 72 Wh  |
| Interfaces, sensors                  | USB 2.0 / RFID / stroboscope  |
| Degree of protection                 | IP65, dust-proof and water jet-proof  |
| Measurement functions                |   |
| Overall values                       | Vibration (a/v/s), voltage, roller bearing  |
| Signals                              | Trending spectrum, trending envelope spectrum, both with time signal, amplitude spectrum and various trending parameters (overall values) |
| Process parameter, visual inspection | Manual input  |
| RPM                                  | RPM determination through vibration signal, verification with stroboscope possible  |

PRÜFTECHNIK Condition Monitoring GmbH  
Oskar-Messter-Str. 19-21  
85737 Ismaning, Germany  
Tel.: +49 89 99616-0  
Fax: +49 89 99616-200  
info@pruftechnik.com  
www.pruftechnik.com