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**PRÜFTECHNIK**

# VIBGUARD®

## Advanced Condition Monitoring



• fast

• synchronous

• reliable

# VIBGUARD® – the safe system

Seamless monitoring for greater machine safety

PRUFTECHNIK values safety! VIBGUARD® is a Condition Monitoring System that protects your machines from damage, provides production security, and improves the efficiency of your assets.

## The facts about VIBGUARD®

- ▶ 20 synchronous measurement channels
- ▶ Continuous data recording on every channel
- ▶ Tachometer pulse channels for triggered measurements
- ▶ Continuous automatic check for sensor and cable defects
- ▶ Digital inputs and outputs
- ▶ Networkable (Ethernet, Modbus TCP)
- ▶ Compact and robust
- ▶ No active cooling required
- ▶ Transient event capturing
- ▶ Shock Pulse and Crest Factor for advanced bearing and gearbox monitoring

## Intelligent data management

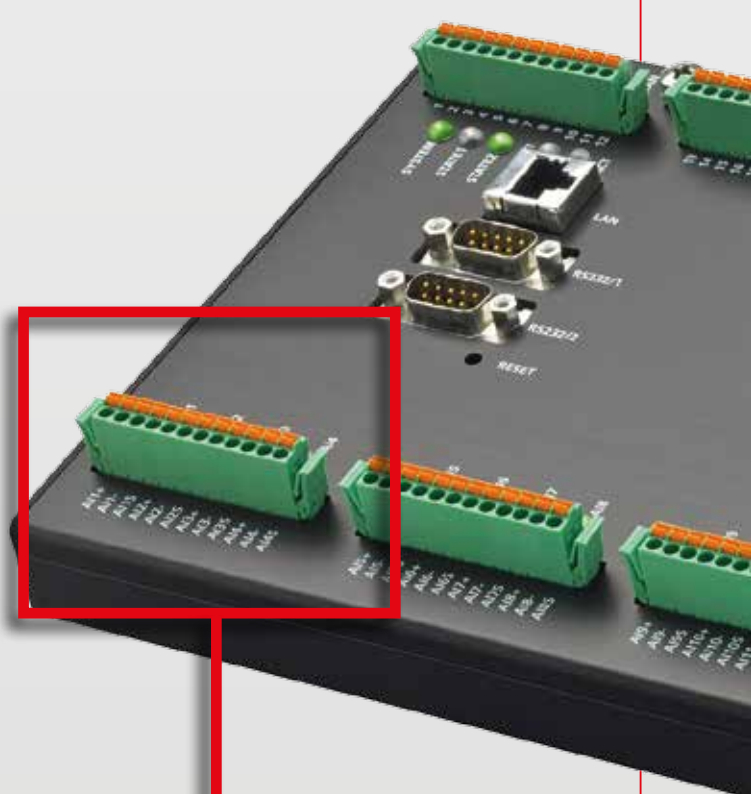
Every channel is able to measure continuously two time wave forms and in addition up to 8 overall values, such as vibration severity and bearing condition.

The 20 measurement channels supply sufficient data every day for seamless documentation of the machine status.

Intelligent data management ensures all important data is recorded and only relevant information is reported.

## Practical installation help

The terminal diagram shows the assignment of sensors and cables for the specific connection. A valuable reference during preparation for installation or for documentation.



Terminal diagram VIBGUARD local1		
Terminal diagram   Channel table   Fieldbus table		
AI16S	■	UK96
AI16-	■	
AI16+	■	
AI15S	■	
AI15-	■	
AI15+	■	
AI14S	■	
AI14-	■	
AI14+	■	
AI13S	■	
AI13-	■	
AI13+	■	
AI12S	■	85
AI12-	■	
AI12+	■	
AI11S	■	84
AI11-	■	
AI11+	■	

# VIBGUARD® – monitoring at top level

especially developed for your critical machines

VIBGUARD® – a new level of Online Condition Monitoring that allows critical machines, with highly dynamic processes and complex monitoring tasks, to be included in a reliability-oriented maintenance schedule.

## VIBGUARD® is ...

### ... fast

Powerful processors, optimized measurement routines and intelligent data management place VIBGUARD® in the formula-1 class of online systems.

### ... synchronous

VIBGUARD® measures continuously and simultaneously on up to 20 channels. This allows it to monitor even complex machines with many variable operating parameters.

### ... safe

VIBGUARD® protects your systems from sudden failure by seamless recording and evaluation of all status parameters.

### ... autonomous

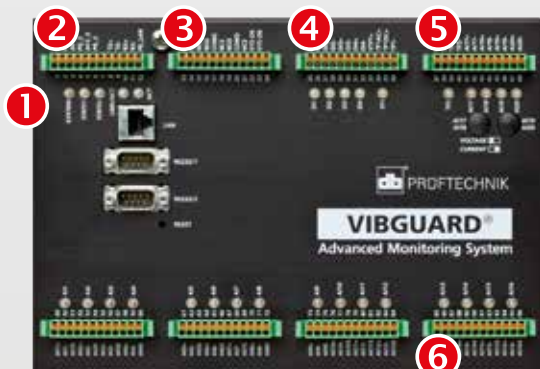
Data recording, evaluation and alarming are all included in the VIBGUARD® module.

### ... versatile

VIBGUARD® supports various kinds of sensors and transmitters to cover a wide variety of applications.

### ... flexible

The measurement channels can be configured to measure vibration and process values. The digital high and low pass filters can be set as required to derive the appropriate characteristic overall values.



- 1 LED status displays
- 2 Connection for power supply and communications
- 3 4 digital switching outputs
- 4 4 digital inputs and 2 tachometer pulse channels
- 5 4 analog measurement channels for current/voltage, configurable in pairs
- 6 16 analog measurement channels for vibration signals  
Module types:
  - 16 x ICP
  - 16 x CLD
  - 16 x U
  - 8 x ICP and 8 x U
  - 8 x CLD and 8 x U

- ▶ Compact housing suitable for standard rail
- ▶ Plug-in terminals for easy cable connections

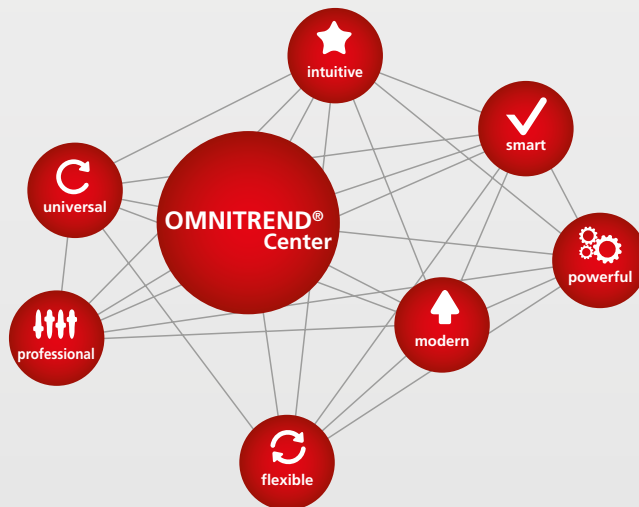
### Four delivery options

- ▶ VIBGUARD® module for installation in a switching cabinet on a standard rail
- ▶ VIBGUARD® in the compact PRÜFTECHNIK protective housing
- ▶ VIBGUARD® in the standard PRÜFTECHNIK protective housing
- ▶ VIBGUARD® in a portable version for mobile troubleshooting. Please refer to the VIBGUARD® portable brochure for more details.

# VIBGUARD® – part of the PRÜFTECHNIK strategy

## OMNITREND® Center

With OMNITREND® Center, VIBGUARD® uses a modern, powerful and easy to use software platform for configuration and analysis of measurement data.



## PRÜFTECHNIK delivers maintenance solutions worldwide



Alignment Systems



Condition Monitoring



Nondestructive Testing



Service & Support

Laser measurement systems and services for optimum alignment of machines and systems.



Approval of Air Carrier Security Programs

Vibration measurement systems for machine condition monitoring – including services such as machinery fault diagnosis.

Systems and services for quality assurance and process control in production.

We offer professional services anywhere in the world to support our customers with alignment and condition monitoring.

# www.pruftechnik.com

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