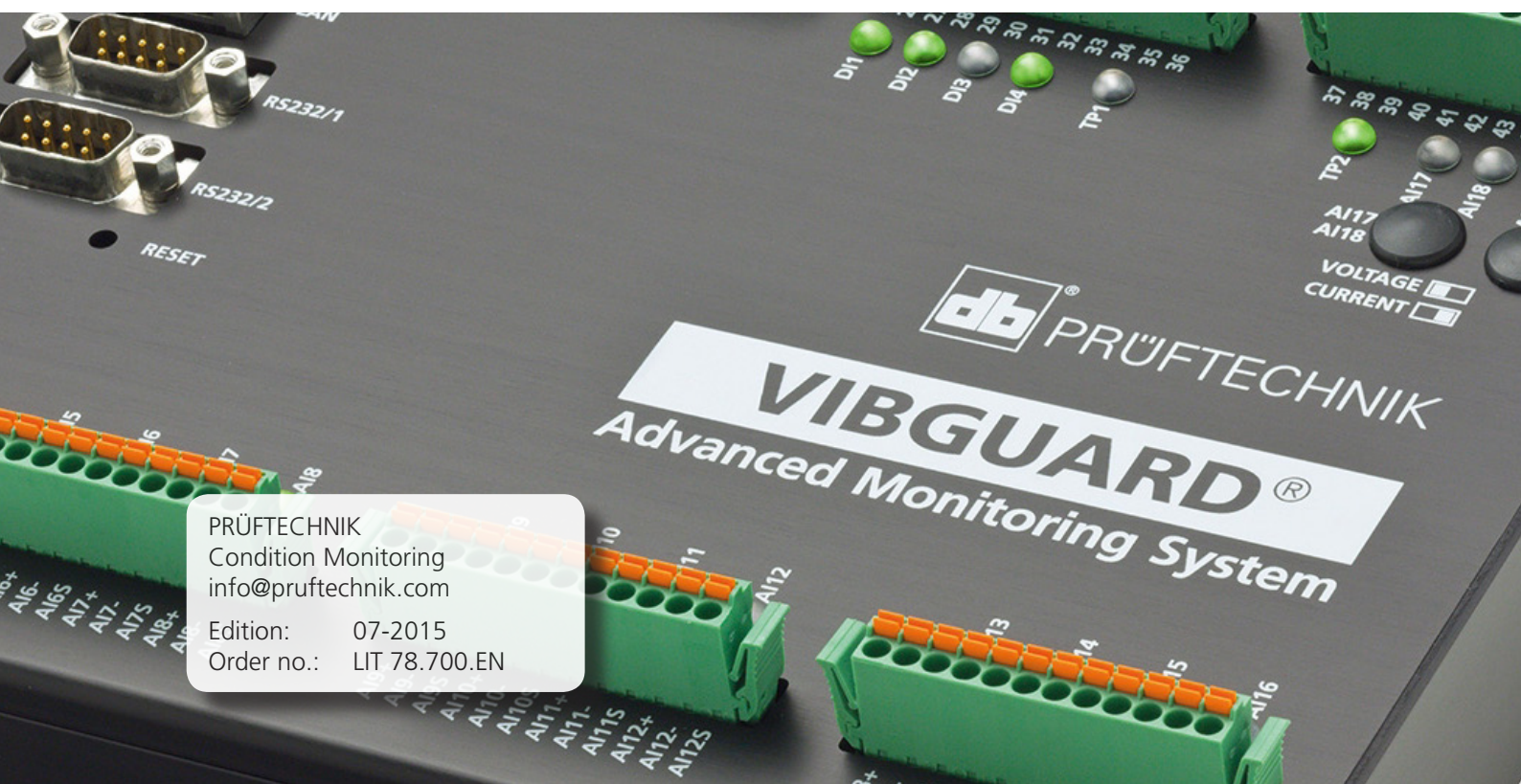


VIBGUARD®

Advanced Condition Monitoring

Catalog



PRÜFTECHNIK
Condition Monitoring
info@pruftechnik.com

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Chapter 1

VIBGUARD

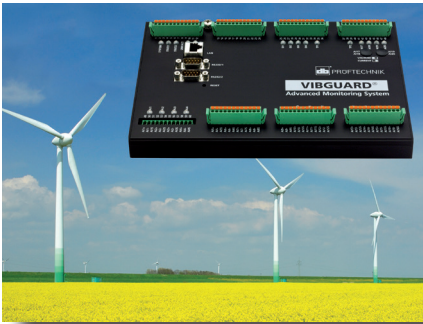
Scope of delivery



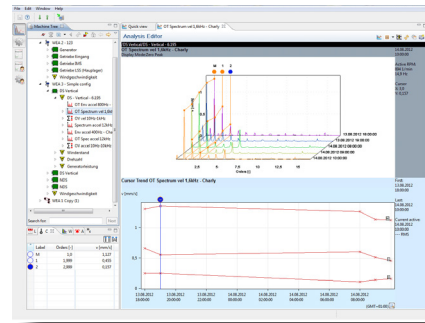
VIBGUARD - Online Condition Monitoring at top level

1

2



VIBGUARD module



OMNITREND Center PC software

VIBGUARD is a high performance system for the monitoring and diagnosis of operating conditions on machines with rotating parts. The permanently installed system works continuously and autonomously and records up to 20 measurement channels simultaneously!

VIBGUARD achieves a new level of Online Condition Monitoring that for the first time allows critical machines with highly dynamic processes and complex monitoring tasks to be included in a reliability-oriented maintenance schedule.

Features

- 20 synchronous measurement channels
- Applies for each channel:
 - 1 AD converter for independent measurements.
 - Up to 6 parameters per second.
 - One envelope spectrum or two separately filtered time signals.
 - Continuous sensor check is independent of the measurement.
 - Continuous data recording on every channel
- Digital inputs and outputs
- Tachometer pulse channels for triggered measurements
- Digital filters
- Several module types for ICP-type and CLD-type accelerometers and shaft vibration sensors with voltage output.
- Compact system module suitable for switching cabinet installation
- No active cooling required
- Optional pre-assembled in a rugged protective housing
- Networkable (Ethernet, Modbus TCP)

OMNITREND Center PC Software

OMNITREND Center is the perfect companion for configuration of measurement channels, data analysis and reporting. A clear structure makes it very easy to use and provides a working environment where the user feels at home immediately. Advanced functions and the perfectly tailored user interface fulfill even the highest requirements

Overview:

- User friendly
- Single or multi user version
- Modern system architecture: Ideal for distributed networks and ready for cloud solutions
- Advanced Modbus support
- Asset status at a glance including findings
- Intelligent search filtering facilitates navigation
- Practical analytical tools
- Interactive reports provide hyperlinks to data source and enables resetting the alarm status from the report
- Open reporting formats (HTML,...).

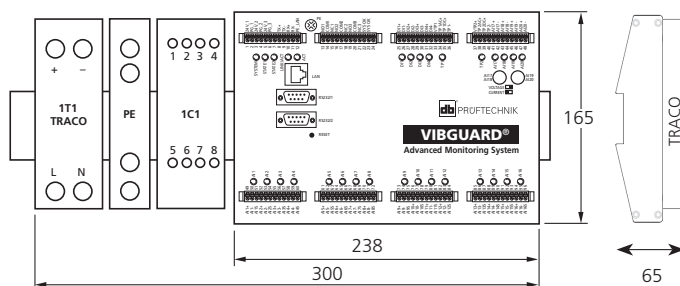
Technical data

PARAMETER		VIB 7.800..	VIB 7.810..	VIB 7.815..	VIB 7.820..	VIB 7.825..
Inputs and Outputs	Analog inputs	20 synchronous channels: 16 x vibration, 4 x process parameters (Process channels configurable pairwise for voltage or current signal)				
	Signal type	16 x U, 4 x U/I	16 x U (ICP), 4 x U/I	8 x U (ICP) + 8 x U, 4 x U/I	16 x I (CLD*), 4 x U/I	8 x I (CLD) + 8 x U, 4 x U/I
	Sensor types	Sensor w/ current or voltage output, Displacement sensor	ICP-type sensor, Sensor w/ current or voltage output, Displacement sensor		CLD-type sensor, Sensor w/ current or voltage output, Displacement sensor	
	Digital inputs	4 optocoupler inputs 0-30V, Threshold 3V				
	Tacho/ pulse inputs	2 frequency inputs ±30V DC and AC. Threshold DC: 2,5V (default)				
	Digital outputs	3 relay changeover contacts, 30VDC/30VAC/2A				
	System OK output	Relay NC, 30VDC/30VAC/2A				
	Ethernet	Data rate: 100 MBit, half duplex				
	Serial interface	2x RS232, 115200 baud				
	Services	Modbus/TCP				
	LED indicators	20x Analog-IN, 1x System, 2x Status, 2x Ethernet, 4x Digital-IN, 2x Tacho-IN				
Measurement	Dynamic range	110 dB @ 24 bit				
	Sampling rate	131 kHz / 50 kHz bandwidth				
	FFT lines	6400 (standard), 102400 (analysis)				
	Measuring range, process channels	± 24V or 4-20 mA, ±20mA				
	Measuring range, analog inputs	± 24V	--	± 24V	--	± 24V
General	Ambient temperature	Stand-alone module: -20°C ... +70°C Module in protective housing: -20°C ... +60°C				
	System power supply	24±6 VDC / 0.5 A				
	Sensor power supply	CLD (Current Linedrive), ICP				
	Memory capacity	Flash: 2 GB (expandable), RAM: 128 MB				
	Case material	Aluminum				
	Weight	approx. 1.2 kg (system module) approx. 4.0 kg (system module in protective housing ‘Compact’, VIB 7.8... LH) approx. 13.0 kg (system module in protective housing ‘Standard’, VIB 7.8... SDH)				
	Environmental protection	IP 20 (IP 65 in protective housing)				

* CLD: Current Linedrive

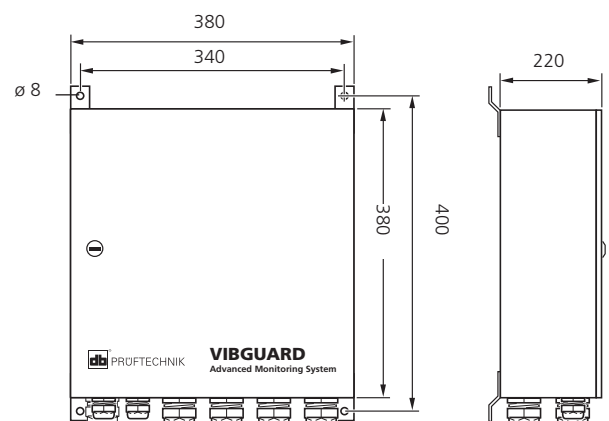
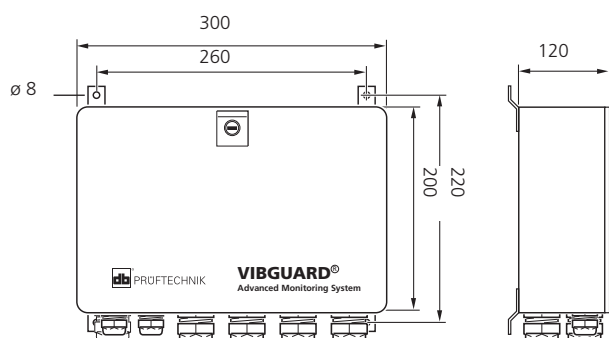
Dimensions in mm

VIBGUARD system module for switching cabinet installation - VIB 7.8xx-PS



VIBGUARD protective housing 'standard', VIB 7.8xx-SDH

VIBGUARD protective housing 'compact', VIB 7.8xx-LH



VIBGUARD module for shaft vibration monitoring (16 x U and 4 x U/I)

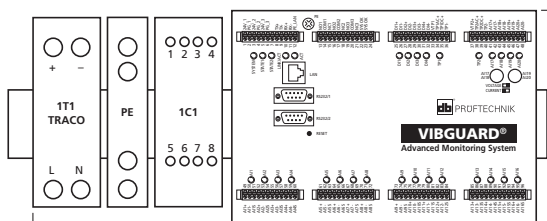
1

VIB 7.800-PS : VIBGUARD module (16 x U and 4 x U/I) incl. power supply

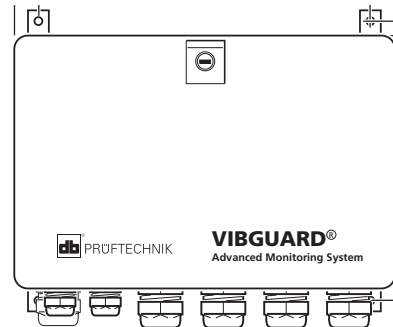
VIB 7.800-LH : VIBGUARD module (16 x U and 4 x U/I) in protective housing ,compact'

VIB 7.800-SDH : VIBGUARD module (16 x U and 4 x U/I) in protective housing ,standard'

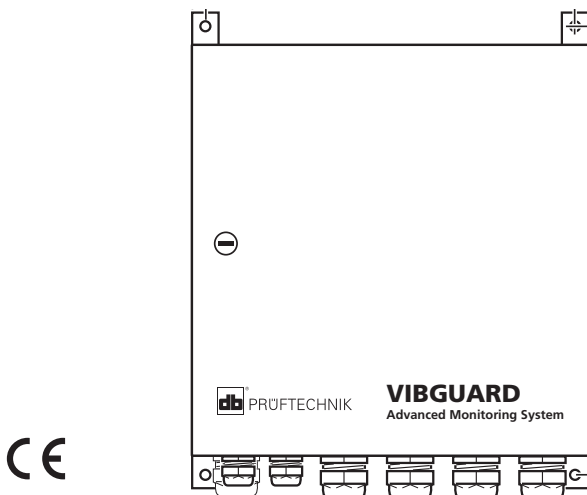
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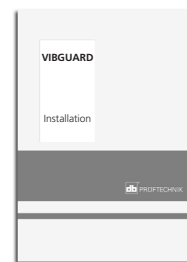
VIB 7.800-PS



VIB 7.800-LH



VIB 7.800-SDH



LIT 78.200

Application

This module is used for monitoring of shaft vibrations which are measured by sensors with voltage output. A total of 16 analog channels for voltage signals are available. Four additional channels can be configured in pairs for current or voltage signals.

Scope of supply

VIBGUARD comes in the following versions:

- Standalone module incl. power supply completely wired and mounted on DIN rail for installation in an existing switching cabinet.
- Module and power supply components completely wired and assembled in the PRÜFTECHNIK protective housing "Compact" or "Standard".

The „Standard“ protective housing provides sufficient space when more than 50% of the terminals must be wired to the module. The smaller „Compact“ housing is sufficient for installations with fewer measurement channels.

Also included:

LIT 78.200.EN VIBGUARD Installation Guide

Accessories

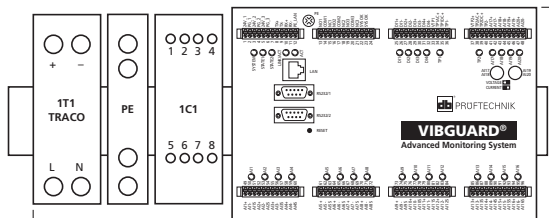
OMNITREND Center, PC software (Chapter 2).

VIBGUARD module for machine vibration monitoring (16 x ICP und 4 x U/I)

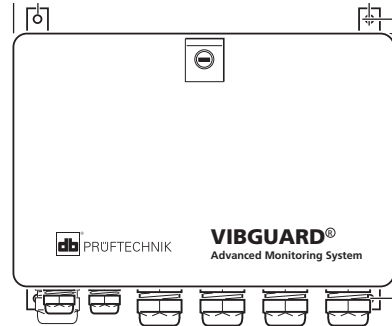
VIB 7.810-PS : VIBGUARD module (16 x ICP and 4 x U/I) incl. power supply

VIB 7.810-LH : VIBGUARD module (16 x ICP and 4 x U/I) in protective housing ‚compact‘

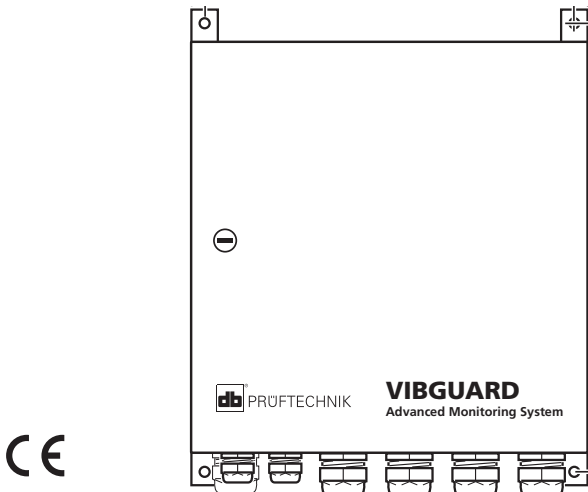
VIB 7.810-SDH : VIBGUARD module (16 x ICP and 4 x U/I) in protective housing ‚standard‘



VIB 7.810-PS



VIB 7.810-LH



VIB 7.810-SDH



LIT 78.200

Application

This module is used for monitoring of machine vibration parameters which are measured by ICP-type accelerometers. A total of 16 analog channels for ICP signals are available. Four additional channels can be configured in pairs for current or voltage signals.

Scope of supply

VIBGUARD comes in the following versions:

- Standalone module incl. power supply completely wired and mounted on DIN rail for installation in an existing switching cabinet.
- Module and power supply components completely wired and assembled in the PRÜFTECHNIK protective housing "Compact" or "Standard".

The „Standard“ protective housing provides sufficient space when more than 50% of the terminals must be wired to the module. The smaller „Compact“ housing is sufficient for installations with fewer measurement channels.

Also included:

LIT 78.200.EN VIBGUARD Installation Guide

Accessories

OMNITREND Center, PC software (Chapter 2).

VIBGUARD module for process parameters / vibration monitoring (8 x ICP, 8 x U, 4 x U/I)

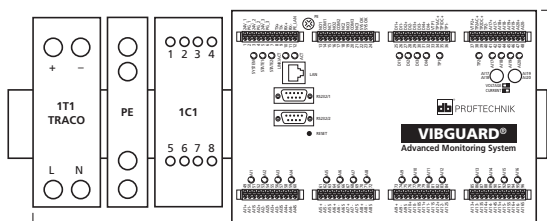
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VIB 7.815-PS : VIBGUARD module (8 x ICP, 8 x U, 4 x U/I) incl. power supply

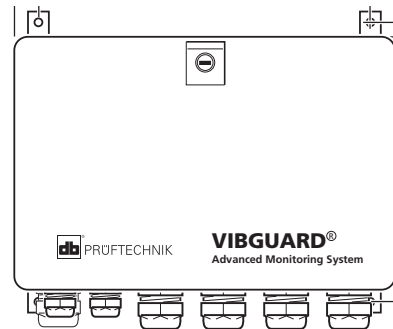
VIB 7.815-LH : VIBGUARD module (8 x ICP, 8 x U, 4 x U/I) in protective housing ‚compact‘

VIB 7.815-SDH : VIBGUARD module (8 x ICP, 8 x U, 4 x U/I) in protective housing ‚standard‘

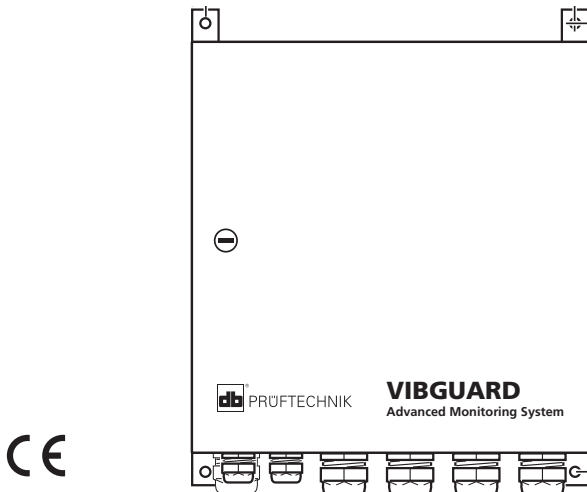
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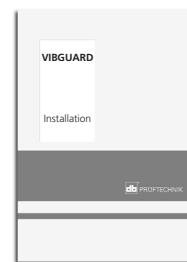
VIB 7.815-PS



VIB 7.815-LH



VIB 7.815-SDH



LIT 78.200

Application

This module is used for monitoring of machine vibration process parameters which are measured by ICP-type accelerometers and sensors with voltage output respectively. In each case eight analog channels for ICP and voltage signals are available. Four additional channels can be configured in pairs for current or voltage signals.

Scope of supply

VIBGUARD comes in the following versions:

- Standalone module incl. power supply completely wired and mounted on DIN rail for installation in an existing switching cabinet.
- Module and power supply components completely wired and assembled in the PRÜFTECHNIK protective housing „Compact“ or „Standard“.

The „Standard“ protective housing provides sufficient space when more than 50% of the terminals must be wired to the module. The smaller „Compact“ housing is sufficient for installations with fewer measurement channels.

Also included:

LIT 78.200.EN VIBGUARD Installation Guide

Accessories

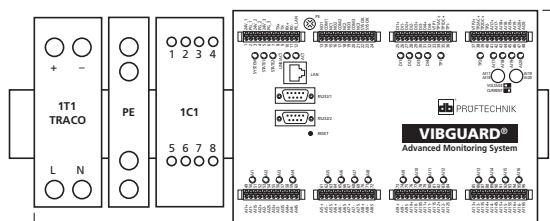
OMNITREND Center, PC software (Chapter 2).

VIBGUARD module for machine vibration monitoring (16 x CLD und 4 x U/I)

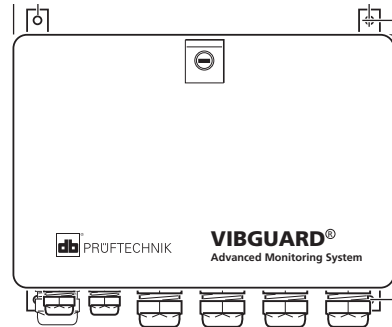
VIB 7.820-PS : VIBGUARD module (16 x CLD and 4 x U/I) incl. power supply

VIB 7.820-LH : VIBGUARD module (16 x CLD and 4 x U/I) in protective housing ‚compact‘

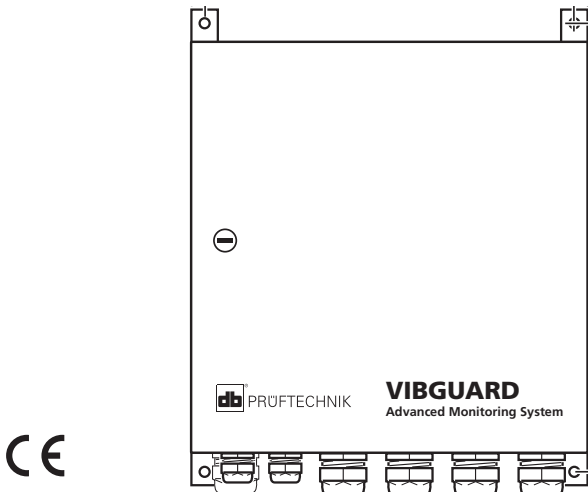
VIB 7.820-SDH : VIBGUARD module (16 x CLD and 4 x U/I) in protective housing ‚standard‘



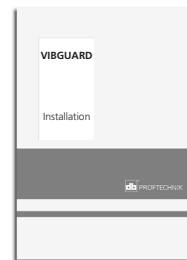
VIB 7.820-PS



VIB 7.820-LH



VIB 7.820-SDH



LIT 78.200

Application

This module is used for monitoring of machine vibration parameters which are measured by CLD*-type accelerometers. A total of 16 analog channels for CLD signals are available. Four additional channels can be configured in pairs for current or voltage signals.

Scope of supply

VIBGUARD comes in the following versions:

- Standalone module incl. power supply completely wired and mounted on DIN rail for installation in an existing switching cabinet.
- Module and power supply components completely wired and assembled in the PRÜFTECHNIK protective housing „Compact“ or „Standard“.

The „Standard“ protective housing provides sufficient space when more than 50% of the terminals must be wired to the module. The smaller „Compact“ housing is sufficient for installations with fewer measurement channels.

Also included:

LIT 78.200.EN VIBGUARD Installation Guide

Accessories

OMNITREND Center, PC software (Chapter 2).

* CLD: Current Linedrive

VIBGUARD module for process parameters / vibration monitoring (8 x CLD, 8 x U, 4 x U/I)

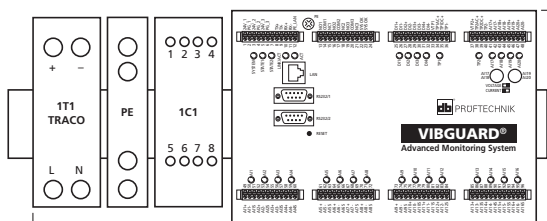
1

VIB 7.825-PS : VIBGUARD module (8 x CLD, 8 x U, 4 x U/I) incl. power supply

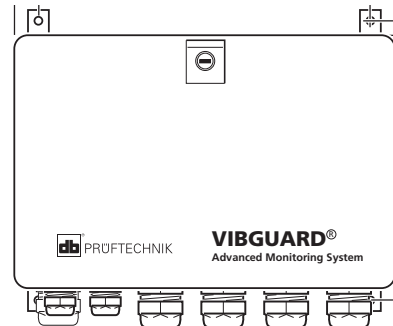
VIB 7.825-LH : VIBGUARD module (8 x CLD, 8 x U, 4 x U/I) in protective housing ‚compact‘

VIB 7.825-SDH : VIBGUARD module (8 x CLD, 8 x U, 4 x U/I) in protective housing ‚standard‘

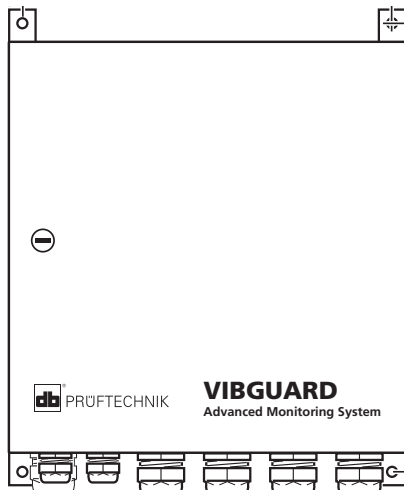
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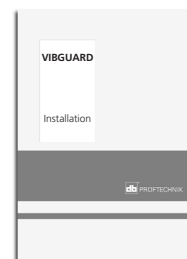
VIB 7.825-PS



VIB 7.825-LH



VIB 7.825-SDH



LIT 78.200

Application

This module is used for monitoring of machine vibration process parameters which are measured by CLD-type accelerometers and sensors with voltage output respectively. In each case eight analog channels for CLD and voltage signals are available. Four additional channels can be configured in pairs for current or voltage signals.

Scope of supply

VIBGUARD comes in the following versions:

- Standalone module incl. power supply completely wired and mounted on DIN rail for installation in an existing switching cabinet.
- Module and power supply components completely wired and assembled in the PROFTECHNIK protective housing "Compact" or "Standard".

The „Standard“ protective housing provides sufficient space when more than 50% of the terminals must be wired to the module. The smaller „Compact“ housing is sufficient for installations with fewer measurement channels.

Also included:

LIT 78.200.EN VIBGUARD Installation Guide

Accessories

OMNITREND Center, PC software (Chapter 2).

* CLD: Current Linedrive

VIBGUARD portable – portable online condition monitoring system (CMS)

VIB 7.800-MOB : VIBGUARD portable

VIB 7.800-MOBIPC : VIBGUARD portable with integrated industrial PC

1

2



VIB 7.800-MOB



VIB 7.800-MOBIPC



LIT 78.202

Application

The portable version of the VIBGUARD condition monitoring system is ideal for temporary diagnosis and troubleshooting of machines for which multiple channels have to be recorded and analyzed simultaneously over an extended period.

Features

VIBGUARD portable can accommodate all available VIBGUARD modules. All components are installed in a robust, industrial-proofed aluminum case. The sensor, communication and power supply connections are wired internally at the factory and can be accessed via a convenient side compartment. A cover protects the connections against environmental influences.

The standard method of data transfer is via the local wired network (LAN, Ethernet). Alternatively, the system can be connected directly to a laptop PC. At locations without a network infrastructure, a wireless connection provided by the customer can also be used.

The second version features an integrated industrial PC for data backups and data processing.

Configuration of the measurement tasks and analysis of the measurement data can be performed on an external computer with the OMNITREND Center PC software (not included).

Scope of delivery

VIBGUARD portable is available in the following versions:

- VIBGUARD module (VIB 7.8xx-PS) including power pack and switch, completely wired and mounted on standard rails in a case.
- VIBGUARD module (VIB 7.8xx-PS) including power pack, switch and industrial PC, completely wired and mounted on standard rails in a case.

Also included:

LIT 78.202.EN VIBGUARD portable, operating manual

Additions

- OMNITREND Center PC software (VIB 8.200-USB).
- VIBGUARD Device points (VIB 8.161)
- Standard cable for CLD-type accelerometers, L meters long (VIB 311231-L)
- TNC/BNC adapter (VIB 93062)

Technical data

PARAMETER		VIB 7.800-MOB	VIB 7.800-MOBIPC
Environment / Case	Technical data: VIBGUARD module	see page 7	
	Temperature range	–20 °C ... +60 °C	–20 °C ... +45 °C
	Weight	approx. 11 kg	approx. 14 kg
	Protection type	IP 64 (also when side compartment is open)	
	Dimensions, case (L x W x D)	445 x 220 x 355 mm	
	Material, case	Aluminium	
	Connectors	20x TNC (Sensors), 8x M12 (dig. I/O; Tacho pulse), 1x power supply, 1x Ethernet (RJ45)	

Information on all other components, such as industrial PC, switch and power pack, is available on request.

1

2

Chapter 2

VIBGUARD

accessories

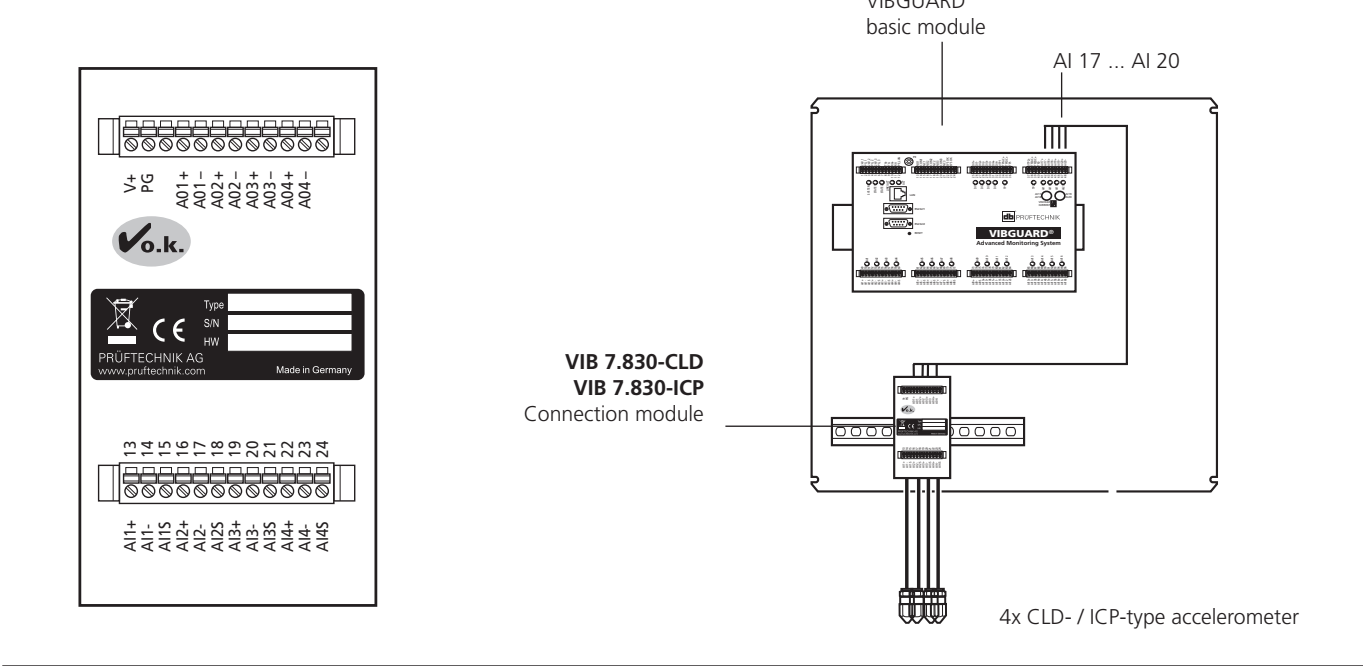
1

2



Connection modules for VIBGUARD (4 x CLD / 4 x ICP)

- 1
- VIB 7.830-CLD : VIBGUARD connection module for 4 additional CLD-type accelerometers
- VIB 7.830-ICP : VIBGUARD connection module for 4 additional ICP-type accelerometers



Application
These modules are used to connect up to four accelerometers on up to four analog voltage inputs

on VIBGUARD. The modules are universal and can be used with any VIBGUARD version in any combination.

Terminal assignment

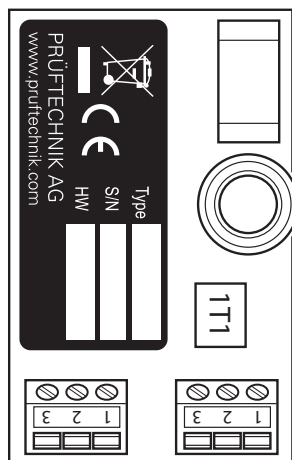
TERM		Function	TERM		Function
VIB 7.830-CLD / VIB 7.830-ICP	1	V+	VIB 7.830-CLD / VIB 7.830-ICP	13	AI1+
	2	PG		14	AI1-
	3	nc		15	AI1S
	4	nc		16	AI2+
	5	AO1+		17	AI2-
	6	AO1-		18	AI2S
	7	AO2+		19	AI3+
	8	AO2-		20	AI3-
	9	AO3+		21	AI3S
	10	AO3-		22	AI4+
	11	AO4+		23	AI4-
	12	AO4-		24	AI4S

- V+ Supply voltage 24VDC (+10V ...+30V)
- PG Power Ground (0V)
- nc not connected
- AO Sensor signal
- AI Sensor connection
- AI_S Shield (insulated on the sensor side)

Technical data

PARAMETER		VIB 7.830-CLD	VIB 7.830-ICP
Electrical	Inputs	4 analog inputs (U ₀ : 10 V; I _{max} : 9.5 mA)	4 analog inputs (U ₀ : 22.5 V; I _{const} : 4.5 mA)
	Outputs	4 analog sensor signals outputs (impedance-converted & rescaled: 1mV/1μA)	4 analog sensor signal outputs (impedance-converted)
	Supply	+24 VDC (+10 V...+30 V)	
	Power input	1150 mW (max 1850 mW)	1250 mW (max 1400 mW)
	Insulation	Module supply and sensor supply are electrically isolated	
Mechanical	Temperature range	-20 °C...+70 °C	
	Terminals	Spring-loaded connection (0.25mm²..1.5mm²)	
	Housing	Aluminum housing IP20 for TS35 top hat rail mounting	
	Dimensions	66 x 105 x 48 mm	
Weight		220 g	

VIB 7.835: DC-DC converter for 24V power supply



Application

The DC-DC converter converts DC voltage from an external 24V supply into a 24V DC voltage, which is virtually

free of noise. The converter is installed by default when VIBGUARD is supplied with 24V provided by the customer.

Terminal assignment

TERM	Function
VIB 7.835 1	VIN+
2	VIN-
3	nc
4	VOUT+
5	DNC
6	VOUT-

VIN+ Input voltage +24VDC
 VIN- Input voltage 0V
 nc not connected
 VOUT+ Output voltage +24VDC
 DNC DO NOT connect!
 VOUT- Output voltage 0V

Technical data

PARAMETER		VIB 7.835
Electrical	Output voltage	+ 24 VDC
	Output current	max. 800 mA; short-circuit protection
	Input voltage	+24VDC (+18V...+30V)
	Input current on VIN	+24VDC max +950 mA; fuse T2A
	Insulation	Input and Output are electrically isolated
Mechanical	Temperature range	-20 °C...+70 °C
	Terminals	Screw terminals (0.25mm ² ...2.5mm ²)
	Housing	Plastic housing IP20 for TS35 and TS15 top hat rail mounting
	Dimensions	45 x 77.5 x 46 mm
	Weight	95g

Online VIEW 4.0 - Visualization software for Online CMS

1

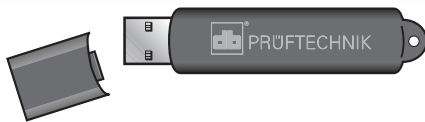
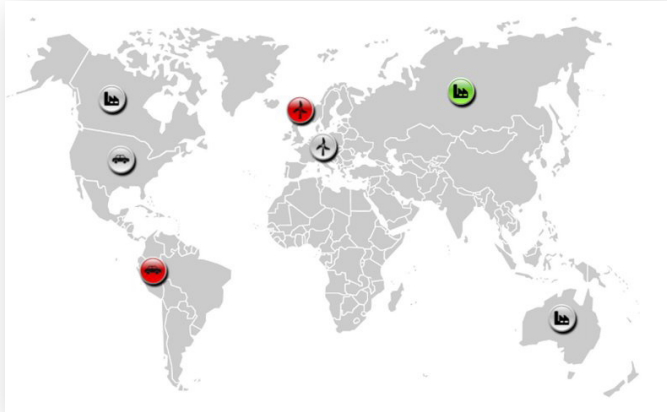
VIB 8.170: Online VIEW 4.0 for up to 100 data points

VIB 8.171: Online VIEW 4.0 for up to 250 data points

VIB 8.172: Online VIEW 4.0 for up to 500 data points

VIB 8.173: Online VIEW 4.0 for up to 1000 data points

2



VIB 8.140-USB



Application

This web-based software is used for online visualization of machine condition data that is collected with PRÜFTECHNIK online CMS* and provided via Modbus TCP. The data is displayed in real time on a PC or mobile devices.

Online VIEW 4.0 runs in a current browser, where the monitored assets, machines and the relevant status information are presented clearly and attractively.

Scope of supply:

VIB 8.140-USB Online VIEW 4.0 USB pendrive

Note

The individual software packages are available based on the required data points. A data point corresponds to a Modbus address, i.e. a characteristic overall value, or an alarm, or a warning is one data point.

* CMS: Condition Monitoring System

Overview

- Client-Server application
- No additional client software required, web browser with Silverlight plug-in is sufficient.
- Visualization on mobile devices as an option
- Configuration and commissioning done by PRÜFTECHNIK
- User interface in more than 150 languages
- Visualization of three levels (asset, machine train, machine) plus status overview
- Status overview with traffic light function
- Several display options for data visualization (bar chart, digital meters, analog instrument)
- Historical data and live data, each as a trend
- Compatible online CMS:
 - VIBGUARD
 - WEARSCANNER
 - VIBNODE
 - VIBROWEB
 - VIBROWEB XP
 - VIBCONNECT RF

OMNITREND Center: Condition Monitoring PC software

VIB 8.200 : OMNITREND Center Client / Server
VIB 8.210 : OMNITREND Center Single User
VIB 8.201 : OMNITREND Center Client / Server: 1 floating user license
VIB 8.202 : OMNITREND Center Client / Server: 5 floating user licenses
VIB 8.205 : OMNITREND Center: 1 additional workspace license
VIB 8.206 : OMNITREND Center: 1 additional server license
VIB 8.207 : OMNITREND Center: Email Center module
VIB 8.215 : OMNITREND Center: online devices support
VIB 8.217 : OMNITREND Center: VIBXPERT support
VIB 8.240-X : X OMNITREND Center credits (X = 4, 8, 12, 16, 32, 64, 128, 256)

1

2



Application

OMNITREND Center is a newly developed condition monitoring software for condition monitoring and diagnostics on rotating machinery.

The current version of OMNITREND Center works with the following PRÜFTECHNIK measuring devices:

Online Condition Monitoring systems

- VIBGUARD
- VIBROWEB XP
- VIBRONET Signalmaster

Portable instruments

- VIBXPERT II
- VIBXPERT EX
- VIBXPERT I

The software is modular. Certain applications as well as the number of access-authorized users are activated using respective licenses.

In order to extend the software function scope for on-line devices, a certain number of credits (bundled in fixed package sizes) is required.

Scope of supply

VIB 8.200-USB OMNITREND Center USB pendrive for installation

VIB 8.201-USB OMNITREND Center USB pendrive for licenses

LIT 82.201.EN OMNITREND Center installation and start-up instructions

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Productive maintenance technology