PRÜFTECHNIK

VIBSCANNER®

Machine diagnostics
Data collection
Field balancing

Catalog

PRÜFTECHNIK
Condition Monitoring
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Edition: 11-2014
Order no.: LIT 54.700.EN

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Vibration velocity / acceleration / displacement
acc. to ISO 10816-3

Bearing condition

Temperature

Rotational speed

Pump cavitation

Process parameters

Windows PC software

Location recognition

Intrinsic safety (option)

Smart data collection with the joystick

VIBSCANNER (VIB 5.400) is a vibration analyzer and data collector for machine condition monitoring. With its comprehensive measurement and analysis functions and convenient joystick navigation, this handy instrument is ideal for daily measurement and inspection rounds.

Together with the OMNITREND PC software, VIBSCANNER provides an important contribution in avoiding unplanned machine standstills and expensive loss of production within the framework of a foresighted maintenance program.

What can the VIBSCANNER do?

VIBSCANNER measures the most important variables of machine conditions:

- Vibration velocity / displacement / acceleration (according to ISO 10816-3 and also for low-speed machines from 2 Hz*)
- Shock pulse (bearing condition)
- Cavitation (e.g. in pumps)
- Temperature
- Rotational speed - RPM.

Further process variables can be entered manually via user-defined tasks or recorded as extra-low voltages/currents (DC/AC).

Balance, FFT & signal analysis (option)

If required, the VIBSCANNER can also be upgraded to an FFT or signal analyzer or balancing instrument. Simply enter the password - and the appropriate measuring functions are activated in the firmware, e.g. Time waveform and spectrum analysis, phase measurements.

Inspection data

VIBSCANNER processes the input of events (e.g. "oil loss") and process parameters (e.g. pressure).

One for all

Inputs and outputs for analog signals are provided on the top of the VIBSCANNER: An universal input for almost every type of transducer (current, voltage, CLD, ICP**,...) also processes extra-low voltage and DC signals. A headset or an analyzer can be connected to the analog output.

Thresholds according to the ISO norm

After measurement, 3 LEDs on the display indicate whether the results lie in the valid, justifiable or invalid range.

VIBCODE-compatible

The patented VIBCODE transducer is the standard transducer for all PRUFTECHNIK measurement devices. VIBCODE recognizes coded measurement locations reliably and ensures reproducible results with its stable coupling.

Machine scan

The collection of machine data is more than simplified with the new and patented user guidance: In the "Machine scanning" mode the measuring locations are graphically depicted in a machine image and sequentially scanned.

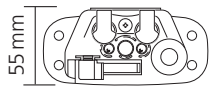
* only with suitable external sensors
** ICP-type transducers may not be operated with VIBSCANNER EX

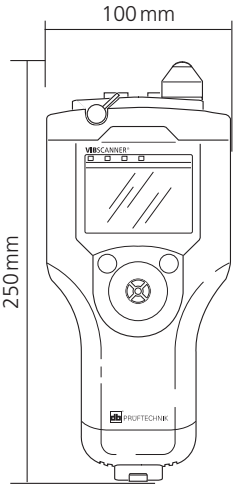
Abbreviations
PCS: Process control system
CMS: Condition Monitoring System
ICP: Integrated Circuit Piezoelectric (sensor w/ voltage output)
CLD: Current Line Drive (sensor w/ current output)

Technical data

	PARAMETER	VIB 5.400	VIB 5.400 EX
Interfaces	Analog meas. channel	Vibration transducer (CLD, ICP) Temperature probe (Pt100, NiCrNi) Transducer & instrument output: AC (± 30 V; 0 - 20 mA) DC (± 30 V; 0 - 20 mA)	Vibration transducer (CLD) Temperature probe (NiCrNi)
	Digital meas. channel	Laser trigger (VIB 6.631); 5V TTL (optical or inductive sensor)	
	Output	RS 232 (PC connection); Headset; Analog signal (4 V_{pp}; R_{out}= 200 Ohm)	
Internal sensors	Vibration / Shock pulse	Tandem piezo accelerometer	
	Frequency range ±10%	10 Hz ... 10 kHz (in cone sinking)	
	Resonance frequency	36 kHz (in cone sinking)	
	Noise, from 10 Hz	0.1 mm/s effective; 2 µm effective (Instrument + Sensor); < 0 dB_{sv} , peak value	
	RPM	IR sensor with pointer for adjustment	
	Temperature	NiCrNi temperature probe	
Signal processing	Meas. quantities / Methods	r.m.s., 0-p, p-p, max/carpet, envelope, rectification	
	High pass filter	2 Hz / 10 Hz; 1 kHz / 5 kHz	
	Low pass filter	1 / 5 / 10 / 40 kHz	1 / 5 / 40 kHz (10 kHz as an option)
	Sampling frequency	up to 64 kHz (depends on the meas. range)	
	Integrator	Two stages switchable	
Meas. range / Accuracy	Vibration	The following applies to the internal sensor and external sensors (CLD: 1µA/ms^{-2}; ICP: 100mV/g) and to external measuring instruments (1mV/ms^{-2}) :	
	Acceleration	< 961 m/s² (p-p) / 1% (internal sensor) < 6000 m/s² (p-p) / 1% (external sensors)	
	Velocity	< 9000 mm/s (p-p) / 1%	
	Displacement	< 9000 µm (p-p) / 1%	
	Shock pulse	< 81 dB_{sv} / ± 3 dB	
	RPM	60 ... 60000 min^{-1} / 0.1‰	
	Temperature Pt 100	-50 ... +600°C / 1°+ Sensor%	n/a
	NiCrNi (int.)	-50 ... +100°C / 0.5° + 3%	
	NiCrNi (ext.)	-50 ... +100°C / 0.5° + Sensor% +100 ... +1000°C / 1° + Sensor%	
	Extra-low voltage (AC/DC)	-9 ... +9 V / 2% (R_i = 30 kOhm, w/ cable VIB 5.440) -30 ... +30 V / 2% (R_i = 100 kOhm, w/ cable VIB 5.433)	n/a
	Extra-low current (AC/DC)	-20 ... +20 mA; 4...20 mA / 2% (R_i = 100 kOhm, w/ cable VIB 5.433)	n/a
	Fulfilled standards	Frequency response according to ISO 2954 – other parameters and measured variables according to DIN 45662 class 1	
Display	Type	Graphic pixel display w/ background illumination	
	Dimensions	54 x 27 mm / 128 x 64 px	
	Contrast & Illumination	adjustable	
Power supply	Type	NiMH battery pack (7.2 V / 1.5 Ah)	
	Charging duration	< 6 hours	< 10 hours
	Operating duration	> 10 hours of intermittent use > 6 hours of continuous use with illumination	
	Charge display	2 LEDs (green, red)	
	Charging temperature	+10°C ... +40°C	
	Sleep mode	adjustable	
General parameters	Operating elements	1 joystick & 2 function keys	
	Status display	4 LEDs for instrument status and signal evaluation	
	Data storage	512 MB	4 MB
	Case material	ABS, reinforced with steel fibre	
	Relative humidity	10 ... 90%	
	Environmental protection	IP 65	
	Operation temperature	0°C ... + 60°C	0°C ... + 45°C
	Storage temperature	-20°C ... + 80°C	0°C ... + 45°C
	Weight	approx. 690 g	
	Intrinsic safety	n/a	⟨Ex⟩ II 2 G Ex ib IIC T4 U.S. equivalent NEC 505: Class I, Zone 1, AEx em ib IIC, T4

Dimensions





VIBSCANNER firmware structure

VIBSCANNER Standard

The functionality of the modular VIBSCANNER firmware can be expanded as required by a password. The basic firmware (VIB 5.480) can be upgraded with the following firmware modules:

- FFT analysis (VIB 5.485-FM)
- Balancing (VIB 5.486-FM)
- Signal analysis* (VIB 5.488-FM)

* For data evaluation in OMNITREND the OMNITREND module 'Signal analysis' (VIB 8.962) is also required.

VIBSCANNER Balancer

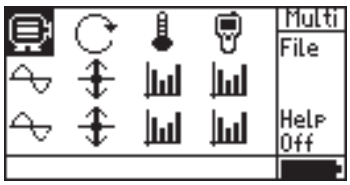
In addition to the basic version, VIBSCANNER is available as a pure balancing instrument in one of the two Balancing packages (VIB 5.460-B1P or VIB 5.460-B2P respectively). The appropriate firmware, 'Balance limited' (VIB 5.489) has a limited functionality. In addition to the balancing function, it features the measurement tasks required for diagnosing an imbalance, such as spectra or characteristic overall values. An upgrade to the basic version is possible with the upgrade package VIB 5.480-UG at any time.

‚Balance limited' firmware features:

- Balancing in one or two planes
- Overall vibration velocity (2/10Hz - 1kHz)
- Overall vibration displacement (2/10Hz - 1kHz)
- Evaluation according to ISO 10816-3
- Temperature / RPM with internal sensor only
- Balancing with external trigger only
- Multimode import in OMNITREND
- Spectra (2/10Hz - 1kHz) with
  $F_{max.}$: 400 Hz and 1600 lines,
  $F_{max.}$: 200 Hz and 800 lines

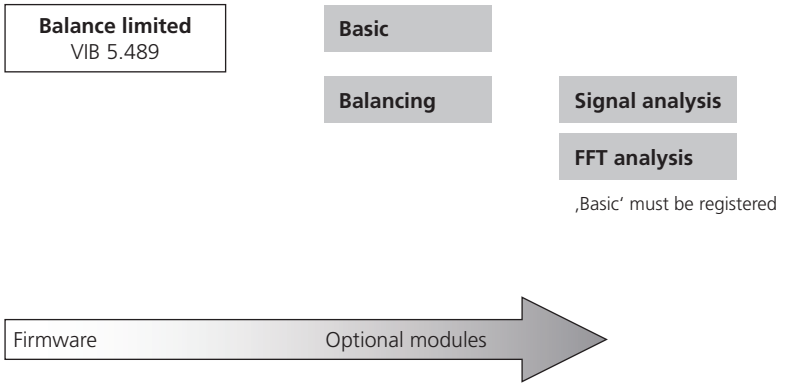
Applies to all measurements:

- Measurement setups and transducers are permanently adjusted and cannot be edited.
- Balance reports can be printed out on a standard printer with a printer driver provided free of charge on the Condition Monitoring CD.



VIBSCANNER Balancer

VIBSCANNER Standard



VIBSCANNER firmware features

BASIC		VIB 5.480
Measurement	Meas. quantities	Velocity / displacement / acceleration as machine-specific measurement tasks Shock pulse (Bearing condition) Cavitation Temperature RPM
	Process parameters	Manual input of parameter values, Extra-low voltage / current (AC/DC: ±30 V; -20..+20 mA) as user-defined measurement tasks
	Averaging	Free-running, linear, exponential, peak hold, time synchronous (signal analysis module)
	Averaging number & time	Adjustable
	Meas. time	Adjustable
	Amplitude range	autorange
Setup & Evaluation	Meas. setups	Predefined, knowledge-based meas. settings for machine, bearing and gear diagnosis Freely selectable meas. functions
	Data processing	Evaluation functions for characteristic overall values Bearing diagnosis with shock pulse measurement Machine condition evaluation according to ISO standards (vibration according to ISO 10816-3) Data collection function for characteristic overall values and for machine inspection
	Units	ISO and US units, selectable
	Comments	User-defined events with comments
Operation	User interface	Icons for measurement tasks; Graphic route guidance using machine graphics (machine scan) Integrated help function
	Languages	English, German, French, Italian, Spanish, Polish, Swedish

FFT ANALYSIS		VIB 5.485-FM
Spectrum	Meas. quantities	Velocity / displacement / acceleration as machine-specific measurement tasks
	Signal processing	Amplitude and Envelope spectra
	Frequency range	5 ranges: 0,1 / 0,2 / 0,4 / 1 / 5 / 10 kHz (10 kHz is an option for VIBSCANNER EX)
	Number of lines	400 to 6400 lines
	Line width	> 0,03 Hz
Evaluation	Display	Linear axis in the frequency range
	Zoom	X/ Y axis, continuously scalable
	Envelope	For bearing, gear and machine diagnosis
	Meas. setups	Optimized setups for various machine types

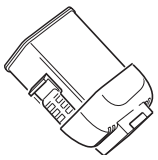
BALANCING		VIB 5.486-FM
Balancing	Meas. quantities	Velocity / displacement / acceleration
	Types of balancing	1-plane balancing Sequential 2-plane balancing
	Types of correction	Free, fixed location, fixed weight, tape measure
	Operation	Graphical operator guidance with machine images and instructive text

SIGNAL ANALYSIS		VIB 5.488-FM
Time waveform	$f_{max.}$	200/ 500/ 1000/ 2000/ 5000 Hz
	Meas. time	[125 - 4000] ... [7.8 - 250] ms
	Additional averaging	time synchronous
	Meas. types	Time waveform, Phase, Orbit (sequential)
Recording	Start delay	adjustable
	Repetitions	adjustable (limited by memory capacity)
	Pause	adjustable
	Meas. types	can be activated for overall values and spectra

VIB 5.460 : VIBSCANNER Maintenance package

VIB 5.428

VIB 8.970



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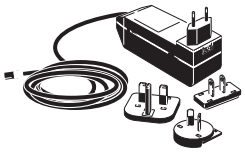


VIB 5.420-INT

VIB 5.430-2

VIB 5.448

VIB 9.638
VIB 9.664
VIB 9.669

LIT 01.800

VIB 5.400

CE

Description

The 'Maintenance' package contains the basic components for data collection and machine diagnosis with VIBSCANNER.

The Software CD (VIB 8.970) contains a demo version of the OMNITREND PC software as well as tools and firmware for VIBSCANNER. The Documentation CD (LIT 01.800) provides latest catalogs, brochures and service magazines in PDF format.

Scope of supply

VIB 5.400	VIBSCANNER instrument (w/o battery)
VIB 5.420-INT	Battery charger
VIB 5.425	Rechargeable battery
VIB 5.428	Case
VIB 5.430-2	PC cable, serial
VIB 5.448	Adapter cable, serial to USB
VIB 8.970	Condition Monitoring CD-ROM
VIB 9.638.G	VIBSCANNER operating instructions
VIB 9.664.G	VIBSCANNER operating instructions 'Balancing, FFT & signal analysis'
VIB 9.669.G	VIBSCANNER short instructions
LIT 01.800	CD ROM, Condition Monitoring catalogs, brochures, magazines

Not shown

VIB 5.480	VIBSCANNER basic firmware
VIB 5.480-L	Basic firmware license
VIB 5.485-FM	VIBSCANNER firmware FFT

Applies to the U.S. market:

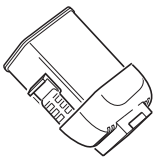
The VIB 5.460 LUD package includes U.S. versions of:

VIB 5.420-INT	Battery charger
VIB 8.970 US	Condition Monitoring CD-ROM, U.S.

VIB 5.460 EX : Maintenance package with intrinsic safety

VIB 5.428

VIB 8.970



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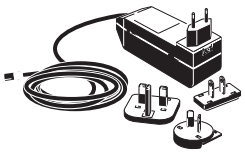


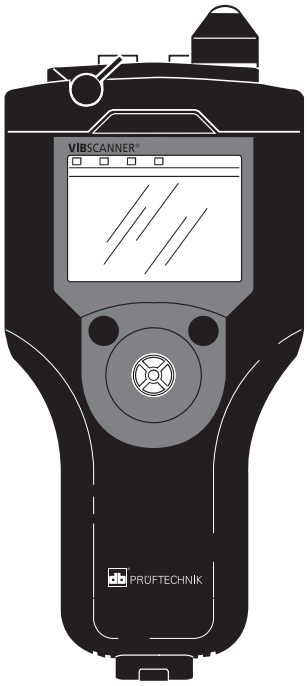
VIB 5.420-INT

VIB 5.430-2

VIB 5.448

VIB 9.638
VIB 9.664
VIB 9.669

LIT 01.800



VIB 5.400 EX

CE 0044

Description

The 'Maintenance' package contains the basic components for data collection and machine diagnosis with VIBSCANNER EX.

The Software CD (VIB 8.970) contains a demo version of the OMNITREND PC software as well as tools and firmware for VIBSCANNER EX. The Documentation CD (LIT 01.800) provides latest catalogs, brochures and service magazines in PDF format.

Scope of supply

VIB 5.400 EX	VIBSCANNER EX instrument (w/o battery)
VIB 5.420-INT	Battery charger
VIB 5.425 EX	Rechargeable battery, EX version
VIB 5.428	Case
VIB 5.430-2	PC cable, serial
VIB 5.448	Adapter cable, serial to USB
VIB 8.970	Condition Monitoring CD-ROM
VIB 9.638.G	VIBSCANNER operating instructions
VIB 9.664.G	VIBSCANNER operating instructions 'Balancing, FFT & signal analysis'
VIB 9.669.G	VIBSCANNER short instructions
LIT 01.800	CD ROM, Condition Monitoring catalogs, brochures, magazines

Not shown

VIB 5.480	VIBSCANNER basic firmware
VIB 5.480-L	Basic firmware license
VIB 5.485-FM	VIBSCANNER firmware FFT

Applies to the U.S. market:

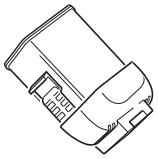
The VIB 5.460 XLUD package includes U.S. versions of:

VIB 5.420-INT	Battery charger
VIB 8.970 US	Condition Monitoring CD-ROM, U.S.

VIB 5.464 : VIBSCANNER Trending package

VIB 5.428

VIB 8.955



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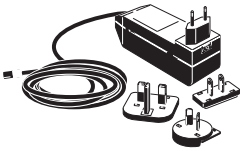


VIB 5.420-INT

VIB 5.430-2

VIB 5.448

VIB 9.638
VIB 9.664
VIB 9.669

VIB 9.631

LIT 01.800

VIB 5.400

CE

Description

The 'Trending' package contains the full version of the OMNITREND PC software. This enables measurement data to be transferred to a PC and archived there for evaluation.

Note

A basic licence for PC communication (VIB 5.480-P) is contained in OMNITREND. Each additional VIBSCANNER instrument requires another licence.

Scope of supply

VIB 5.400	VIBSCANNER instrument (w/o battery)
VIB 5.420-INT	Battery charger
VIB 5.425	Rechargeable battery
VIB 5.428	Case
VIB 5.430-2	PC cable, serial
VIB 5.448	Adapter cable, serial to USB
VIB 8.955	OMNITREND for VIBSCANNER
VIB 9.631 G	OMNITREND, Getting started
VIB 9.638 G	VIBSCANNER instructions
VIB 9.664.G	VIBSCANNER operating instructions 'Balancing, FFT & signal analysis'
VIB 9.669 G	VIBSCANNER short instructions
LIT 01.800	CD ROM, Condition Monitoring catalogs, brochures, magazines

Not shown

VIB 5.480	VIBSCANNER basic firmware
VIB 5.480-L	Basic firmware license
VIB 5.480-P	PC license
VIB 5.485-FM	VIBSCANNER firmware FFT

Applies to the U.S. market:

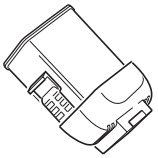
The VIB 5.464 LUD package includes U.S. versions of:

VIB 5.420-INT	Battery charger
VIB 8.955 US	OMNITREND for VIBSCANNER, U.S.

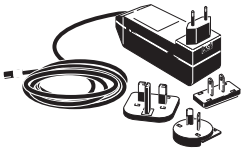
VIB 5.464 EX : VIBSCANNER Trending package with intrinsic safety

VIB 5.428

VIB 8.955



VIB 5.425 EX



VIB 5.420-INT

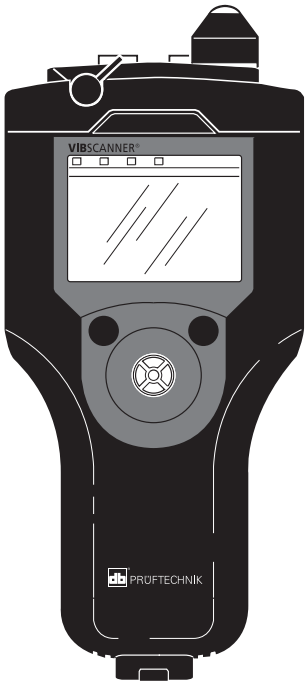
VIB 5.430-2

VIB 5.448

VIB 9.638
VIB 9.664
VIB 9.669

VIB 9.631

LIT 01.800



VIB 5.400 EX

0044

Description

The 'Trending' package contains the full version of the OMNITREND PC software. This enables measurement data to be transferred to a PC and archived there for evaluation.

Note

A basic licence for PC communication (VIB 5.480-P) is contained in OMNITREND. Each additional VIBSCANNER instrument requires another licence.

Scope of supply

VIB 5.400 EX	VIBSCANNER EX instrument (w/o battery)
VIB 5.420-INT	Battery charger
VIB 5.425 EX	Rechargeable battery, EX version
VIB 5.428	Case
VIB 5.430-2	PC cable, serial
VIB 5.448	Adapter cable, serial to USB
VIB 8.955	OMNITREND for VIBSCANNER
VIB 9.631 G	OMNITREND, Getting started
VIB 9.638.G	VIBSCANNER instructions
VIB 9.664.G	VIBSCANNER operating instructions 'Balancing, FFT & signal analysis'
VIB 9.669.G	VIBSCANNER short instructions
LIT 01.800	CD ROM, Condition Monitoring catalogs, brochures, magazines

Not shown

VIB 5.480	VIBSCANNER basic firmware
VIB 5.480-L	Basic firmware license
VIB 5.480-P	PC license
VIB 5.485-FM	VIBSCANNER firmware FFT

Applies to the U.S. market:

The VIB 5.464 XLUD package includes U.S. versions of:

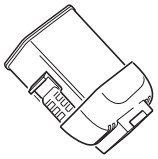
VIB 5.420-INT	Battery charger
VIB 8.955 US	OMNITREND for VIBSCANNER, U.S.

VIB 5.466 : VIBSCANNER VIBCODE package

VIB 5.428

VIB 8.660 VS

VIB 8.955



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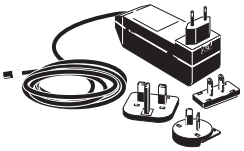


VIB 5.420-INT

VIB 5.430-2

VIB 5.448

VIB 5.400

VIB 9.638
VIB 9.664
VIB 9.669
VIB 9.834

VIB 9.631

LIT 01.800

Description

The VIBCODE package allows quick and reliable data collection with the VIBCODE transducer system and a comprehensive evaluation and archiving with the OMNITREND PC software. The VIBCODE transducer recognizes measurement locations uniquely from their coding. Its bayonet socket ensures a reproducible coupling for the reliable and accurate replication of measurement results.

Note

A basic licence for PC communication (VIB 5.480-P) is contained in OMNITREND. Each additional VIBSCANNER instrument requires another licence.

Scope of supply

VIB 5.400	VIBSCANNER instrument (w/o battery)
VIB 5.420-INT	Battery charger
VIB 5.425	Rechargeable battery
VIB 5.428	Case
VIB 5.430-2	PC cable, serial
VIB 5.448	Adapter cable, serial to USB
VIB 8.660 VS	VIBCODE transducer incl. cable
VIB 8.955	OMNITREND for VIBSCANNER
VIB 9.631.G	OMNITREND, Getting started
VIB 9.638.G	VIBSCANNER operating instructions
VIB 9.664.G	VIBSCANNER operating instructions 'Balancing, FFT & signal analysis'
VIB 9.669.G	VIBSCANNER short instructions
VIB 9.834.G	VIBCODE operating instructions
LIT 01.800	CD ROM, Condition Monitoring catalogs, brochures, magazines

Not shown

VIB 5.480	VIBSCANNER basic firmware
VIB 5.480-L	Basic firmware license
VIB 5.480-P	PC license
VIB 5.485-FM	VIBSCANNER firmware FFT

Applies to the U.S. market:

The VIB 5.466 LUD package includes U.S. versions of:

VIB 5.420-INT	Battery charger
VIB 8.955 US	OMNITREND for VIBSCANNER, U.S.

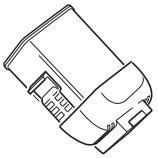
VIB 5.466 EX : VIBSCANNER VIBCODE package with intrinsic safety

VIB 5.428

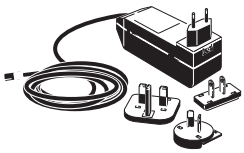
VIB 8.660 XVS

VIB 8.955

VIB 5.400 EX



VIB 5.425 EX



VIB 5.420-INT

VIB 5.430-2

VIB 5.448

VIB 9.638
VIB 9.664
VIB 9.669
VIB 9.834

VIB 9.631

LIT 01.800

CE 0044

Description

The VIBCODE package allows quick and reliable data collection in hazardous areas with the VIBCODE transducer system and a comprehensive evaluation and archiving with the OMNITREND PC software. The VIBCODE transducer recognizes measurement locations uniquely from their coding. Its bayonet socket ensures a reproducible coupling for the reliable and accurate replication of measurement results.

Note

A basic licence for PC communication (VIB 5.480-P) is contained in OMNITREND. Each additional VIBSCANNER instrument requires another licence.

Scope of supply

VIB 5.400 EX	VIBSCANNER EX instrument (w/o battery)
VIB 5.420-INT	Battery charger
VIB 5.425	Rechargeable battery
VIB 5.428	Case
VIB 5.430-2	PC cable, serial
VIB 5.448	Adapter cable, serial to USB
VIB 8.660 XVS	VIBCODE EX transducer incl. cable
VIB 8.955	OMNITREND for VIBSCANNER
VIB 9.631.G	OMNITREND, Getting started
VIB 9.638.G	VIBSCANNER operating instructions
VIB 9.664.G	VIBSCANNER operating instructions 'Balancing, FFT & signal analysis'
VIB 9.669.G	VIBSCANNER short instructions
VIB 9.834.G	VIBCODE operating instructions
LIT 01.800	CD ROM, Condition Monitoring catalogs, brochures, magazines

Not shown

VIB 5.480	VIBSCANNER basic firmware
VIB 5.480-L	Basic firmware license
VIB 5.480-P	PC license
VIB 5.485-FM	VIBSCANNER firmware FFT

Applies to the U.S. market:

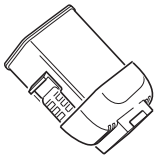
The VIB 5.466 XLUD package includes U.S. versions of:

VIB 5.420-INT	Battery charger
VIB 8.955 US	OMNITREND for VIBSCANNER, U.S.

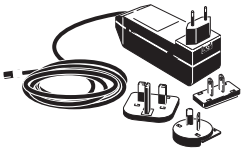
VIB 5.465 : Additional VIBCODE package for VIBSCANNER

VIB 5.428

VIB 8.660 VS



VIB 5.425



VIB 5.420-INT

VIB 5.430-2

VIB 5.448

VIB 5.400

CE

VIB 9.638
VIB 9.664
VIB 9.669
VIB 9.834

VIB 9.631

LIT 01.800

Description

This additional VIBCODE package includes all components of the VIBCODE package (VIB 5.466) except the OMNITREND full version.

Scope of supply

VIB 5.400	VIBSCANNER instrument (w/o battery)
VIB 5.420-INT	Battery charger
VIB 5.425	Rechargeable battery
VIB 5.428	Case
VIB 5.430-2	PC cable, serial
VIB 5.448	Adapter cable, serial to USB
VIB 8.660 VS	VIBCODE transducer incl. cable
VIB 8.970	Condition Monitoring CD-ROM
VIB 9.631.G	OMNITREND, Getting started
VIB 9.638.G	VIBSCANNER operating instructions
VIB 9.664.G	VIBSCANNER operating instructions 'Balancing, FFT & signal analysis'
VIB 9.669.G	VIBSCANNER short instructions
VIB 9.834.G	VIBCODE operating instructions
LIT 01.800	CD ROM, Condition Monitoring catalogs, brochures, magazines

Not shown

VIB 5.480	VIBSCANNER basic firmware
VIB 5.480-L	Basic firmware license
VIB 5.480-P	PC license
VIB 5.485-FM	VIBSCANNER firmware FFT

Applies to the U.S. market:

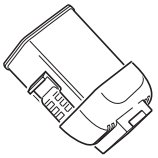
The VIB 5.465 LUD package includes U.S. versions of:

VIB 5.420-INT	Battery charger
VIB 8.970 US	Condition Monitoring CD-ROM, U.S.

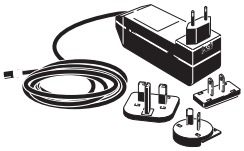
VIB 5.465 EX : Additional VIBCODE package for VIBSCANNER with intrinsic safety

VIB 5.428

VIB 8.660 XVS



VIB 5.425 EX



VIB 5.420-INT

VIB 5.430-2

VIB 5.448

VIB 5.400 EX

VIB 9.638
VIB 9.664
VIB 9.669
VIB 9.834

VIB 9.631

LIT 01.800

0044

Description

This additional VIBCODE package includes all components of the VIBCODE package with intrinsic safety (VIB 5.466 EX) except the OMNITREND full version.

Scope of supply

VIB 5.400 EX	VIBSCANNER EX instrument (w/o battery)
VIB 5.420-INT	Battery charger
VIB 5.425	Rechargeable battery
VIB 5.428	Case
VIB 5.430-2	PC cable, serial
VIB 5.448	Adapter cable, serial to USB
VIB 8.660 XVS	VIBCODE EX transducer incl. cable
VIB 8.970	Condition Monitoring CD-ROM
VIB 9.631.G	OMNITREND, Getting started
VIB 9.638.G	VIBSCANNER operating instructions
VIB 9.664.G	VIBSCANNER operating instructions 'Balancing, FFT & signal analysis'
VIB 9.669.G	VIBSCANNER short instructions
VIB 9.834.G	VIBCODE operating instructions
LIT 01.800	CD ROM, Condition Monitoring catalogs, brochures, magazines

Not shown

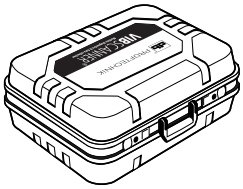
VIB 5.480	VIBSCANNER basic firmware
VIB 5.480-L	Basic firmware license
VIB 5.480-P	PC license
VIB 5.485-FM	VIBSCANNER firmware FFT

Applies to the U.S. market:

The VIB 5.465 XLUD package includes U.S. versions of:

VIB 5.420-INT	Battery charger
VIB 8.970 US	Condition Monitoring CD-ROM, U.S.

VIB 5.460-B1P : VIBSCANNER balancing package with one measuring channel

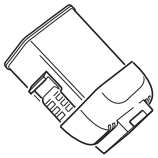

VIB 5.429

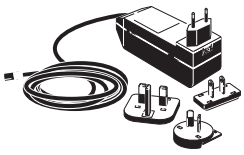

VIB 6.631


VIB 6.632

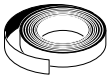

VIB 6.147

VIB 5.400


VIB 5.425


VIB 5.420-INT


VIB 3.420


VIB 3.306


VIB 5.448


VIB 5.430-2


VIB 9.638
VIB 9.664
VIB 9.669


LIT 01.800

VIB 8.970

Description

This package is used for 1-plane balancing and includes the required equipment for one measuring channel. VIBSCANNER, featuring the firmware 'Balance limited' (VIB 5.489), can be upgraded to the basic firmware as shown on page 8.

Scope of supply

VIB 3.306	Reflective tape, 10 mm
VIB 3.420	Magnetic holder for curved mounting surfaces
VIB 5.400	VIBSCANNER instrument (w/o battery)
VIB 5.420-INT	Battery charger
VIB 5.425	Rechargeable battery
VIB 5.429	Accessory case
VIB 5.430-2	PC cable, serial
VIB 5.432-2,9	Trigger cable, 2.9 m
VIB 5.437-2,9	Cable for Current line-drive transducer, 2.9 m
VIB 5.448	Adapter cable, serial to USB
VIB 6.147	Accelerometer for low-speed machines
VIB 6.631	Laser Trigger Sensor
VIB 6.632	Trigger stand
VIB 8.970	Condition Monitoring CD
VIB 9.638.G	Operating instructions
VIB 9.664.G	Operating instructions 'Balancing, FFT & signal analysis'
VIB 9.669.G	Short instructions
LIT 01.800	CD ROM, Condition Monitoring catalogs, brochures, magazines

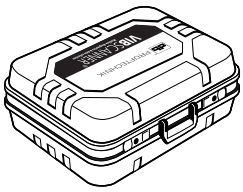
Not shown

VIB 5.485-FM	VIBSCANNER firmware FFT
VIB 5.486-B	Password certificate 'Balancing'
VIB 5.489	Firmware 'Balance limited'

Accessory

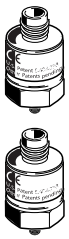
VIB 5.480-UG	Firmware upgrade to ‚Basic'

VIB 5.460-B2P : VIBSCANNER balancing package with two measuring channels

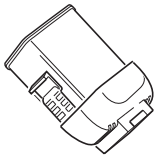

VIB 5.429

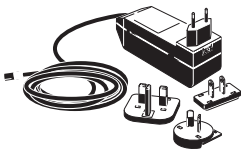

VIB 6.631

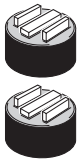

VIB 6.632


VIB 6.147

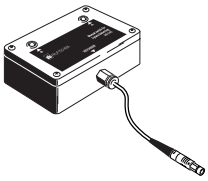
VIB 5.400


VIB 5.425


VIB 5.420-INT


VIB 3.420


VIB 3.306


VIB 5.446


VIB 5.448


VIB 5.430-2


VIB 9.638
VIB 9.664
VIB 9.669


LIT 01.800

VIB 8.970

Description

This package is used for 1- and 2-plane balancing and includes the required equipment for two measuring channels. VIBSCANNER, featuring the firmware 'Balance limited' (VIB 5.489), can be upgraded to the basic firmware as shown on page 8.

Scope of supply

VIB 3.306	Reflective tape, 10 mm
VIB 3.420	Magnetic holder for curved mounting surfaces, 2x
VIB 5.400	VIBSCANNER instrument (w/o battery)
VIB 5.420-INT	Battery charger
VIB 5.425	Rechargeable battery
VIB 5.429	Accessory case
VIB 5.430-2	PC cable, serial
VIB 5.432-2,9	Trigger cable, 2.9 m
VIB 5.436	Spiral cable for Current line-drive transducers
VIB 5.446	Automatic switch for 2-plane balancing
VIB 5.437-2,9	Cable for Current line-drive transducer, 2.9 m
VIB 5.448	Adapter cable, serial to USB
VIB 6.147	Accelerometer for low-speed mach., 2x
VIB 6.631	Laser Trigger Sensor
VIB 6.632	Trigger stand
VIB 8.970	Condition Monitoring CD
VIB 9.638.G	Operating instructions
VIB 9.664.G	Operating instructions 'Balancing, FFT & signal analysis'
VIB 9.669.G	Short instructions
LIT 01.800	CD ROM, Condition Monitoring catalogs, brochures, magazines

Not shown

VIB 5.485-FM	VIBSCANNER firmware FFT
VIB 5.486-B	Password certificate 'Balancing'
VIB 5.489	Firmware 'Balance limited'

Accessory

VIB 5.480-UG	Firmware upgrade to ‚Basic'

VIB 5.486-HW : VIBSCANNER transducer set for 1-plane balancing

VIB 6.147

VIB 3.420

VIB 3.306

VIB 6.631

VIB 6.632

MiniSnap VIB 5.437-2,9 TNC

MiniSnap VIB 5.432-2,9 BINDER

Description

This transducer set includes the required measurement equipment for balancing with VIBSCANNER in one plane.

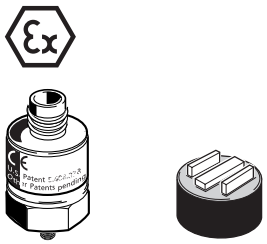
Scope of supply

VIB 3.306	Reflective tape, 10 mm
VIB 3.420	Magnetic holder for curved mounting surfaces
VIB 5.432-2,9	Trigger cable, 2.9 m
VIB 5.437-2,9	Cable for Current line-drive transducer, 2.9 m
VIB 6.147	Accelerometer for low-speed machines
VIB 6.631	Laser Trigger Sensor
VIB 6.632	Trigger stand

Note

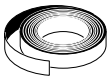
The balancing firmware module VIB 5.486-FM is not included in the transducer set.

VIB 5.486-XHW: VIBSCANNER transducer set for 1-plane balancing with intrinsic safety



VIB 6.147 DEX

VIB 3.420



VIB 3.306

VIB 6.631 EX

VIB 6.632

MiniSnap VIB 5.437-2,9 TNC

MiniSnap VIB 5.432-2,9 BINDER

Description

This transducer set includes the required measurement equipment for balancing with VIBSCANNER in one plane in hazardous areas.

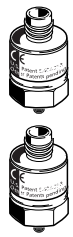
Scope of supply

VIB 3.306	Reflective tape, 10 mm
VIB 3.420	Magnetic holder for curved mounting surfaces
VIB 5.432-2,9	Trigger cable, 2.9 m
VIB 5.437-2,9	Cable for Current line-drive transducer, 2.9 m
VIB 6.147 DEX	Accelerometer for low-speed machines, intrinsically safe
VIB 6.631 EX	Laser Trigger Sensor, intrinsically safe
VIB 6.632	Trigger stand

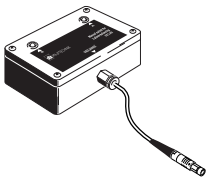
Note

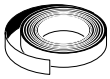
The balancing firmware module VIB 5.486-FM is not included in the transducer set.

VIB 5.487-HW : VIBSCANNER transducer set for 2-plane balancing


VIB 6.147


VIB 3.420


VIB 5.446


VIB 3.306


VIB 6.631


VIB 6.632

Description

This transducer set includes the required measurement equipment for balancing with VIBSCANNER in two planes.

Scope of supply

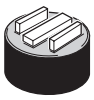
VIB 3.306	Reflective tape, 10 mm
VIB 3.420	Magnetic holder for curved mounting surfaces, 2x
VIB 5.432-2,9	Trigger cable, 2.9 m
VIB 5.436	Spiral cable for Current line-drive transducers
VIB 5.437-2,9	Cable for Current line-drive transducer, 2.9 m
VIB 5.446	Automatic switch for 2-plane balancing
VIB 6.147	Accelerometer for low-speed machines,2x
VIB 6.631	Laser Trigger Sensor
VIB 6.632	Trigger stand

Note

The balancing firmware module VIB 5.486-FM is not included in the transducer set.

VIB 6.142 RSET : Transducer set for vibration measurements

VIB 6.142 R



VIB 3.420

VIB 5.436

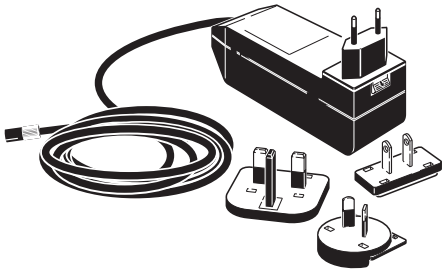
Description

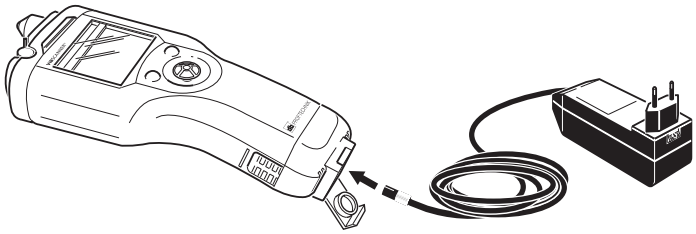
This transducer set includes the required measurement equipment for vibrations measurements with an external accelerometer.

Scope of supply

VIB 3.420	Magnetic holder for curved mounting surfaces
VIB 5.436	Spiral cable for Current line-drive transducers
VIB 6.142 R	Accelerometer for standard machines

VIB 5.420-INT : VIBSCANNER battery charger





VIB 5.420-INT

Description

The VIBSCANNER battery (VIB 5.425 / VIB 5.425 EX) is recharged with the charger VIB 5.420-INT when the VIBSCANNER instrument is switched off.

The VIBSCANNER battery charger VIB 5.320-INT has several interchangeable AC plugs for the most international plug types.

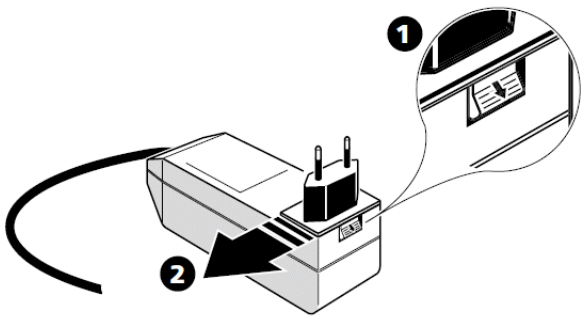
After charging, the charger switches automatically to trickle-mode in order to protect the rechargeable battery.

ATTENTION!
Rechargeable batteries must not be charged in hazardous areas!

Technical data

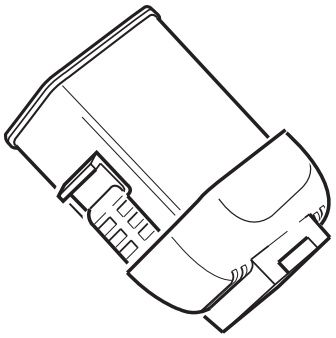
PARAMETER		VIB 5.420-INT
Electrical	Primary voltage	100 - 240 VAC; 50 - 60 Hz; 620 mA
	Secondary voltage	12.1 VDC / 250 mA
	Charging duration	< 5 hours, depends on battery charge condition
General	Environmental protection	IP 20
	Temperature range, operation	-5°C ... +40°C
	Temperature range, storage	-30°C ...+80°C
	Dimensions (WxHxL)	42 x 42 x 105 mm
	Cable length	approx. 1.5 m

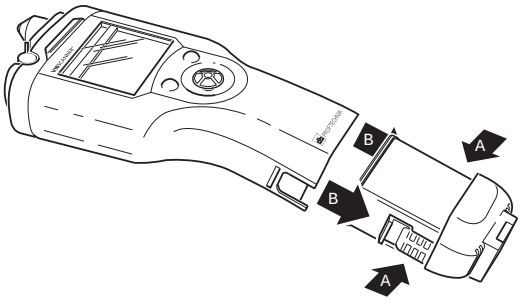
How to change the plug



VIBSCANNER rechargeable battery

VIB 5.425 :	Rechargeable battery for VIBSCANNER
VIB 5.425 EX :	Rechargeable battery for VIBSCANNER EX





Description

The VIBSCANNER rechargeable battery is built into the handle of the instrument. The practical spring catch enables the battery to be easily removed and re-inserted again in a single action.

The battery is recharged using the VIBSCANNER charger VIB 5.420. 'Charge level' and 'Battery status' are indicated by two LEDs on the battery.

ATTENTION!
Rechargeable batteries must not be charged in hazardous areas!

Technical data

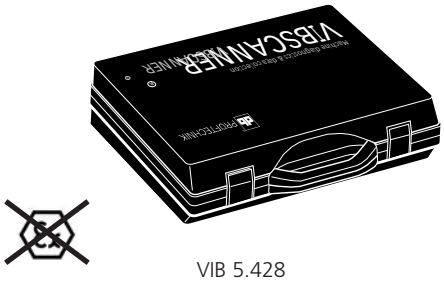
PARAMETER		VIB 5.425	VIB 5.425 EX
Electrical	Type	NiMH	
	Nominal voltage	7,2 V	
	Nominal capacity	1,5 Ah	
	Operating duration	> 10 hours in intermittent operation > 6 hours in continuous operation with illumination	
	Charging duration	< 6 hours	< 10 hours
General	Charging temp.	+10°C ... +40°C	
	Status display	2 LEDs (red/ green) for charging and batt. status	
	Weight	approx. 260 g	
	Dimensions	approx. 9 x 6.5 x 4 cm	

VIBSCANNER cases

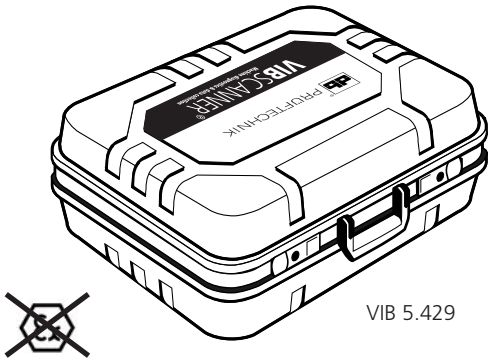
1

2

VIB 5.428 :	Standard case for VIBSCANNER
VIB 5.429 :	Accessory case for VIBSCANNER



VIB 5.428



VIB 5.429

Description

The handy size, compact standard case VIB 5.428 is included with the Standard packages. It is durable and protects the measuring equipment in a harsh industrial environment.

The lockable accessory cases VIB 5.429 is included with the Balancing packages. Its sturdy shells (ABS) and shock-absorbing foam inserts provide protection for of all major components and all accessories for balancing. The case is drop tested up to 2 meters.

ATTENTION!
The cases are not allowed in hazardous areas!

Technical data

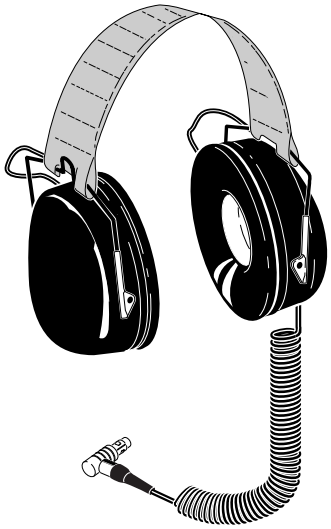
PARAMETER		VIB 5.428	VIB 5.429
General	Material	Polypropylene (PP)	ABS plastic
	Dimensions (W x D x H)	390 x 340 x 90 mm	470 x 400 x 195 mm
	Empty weight	1 kg	3 kg

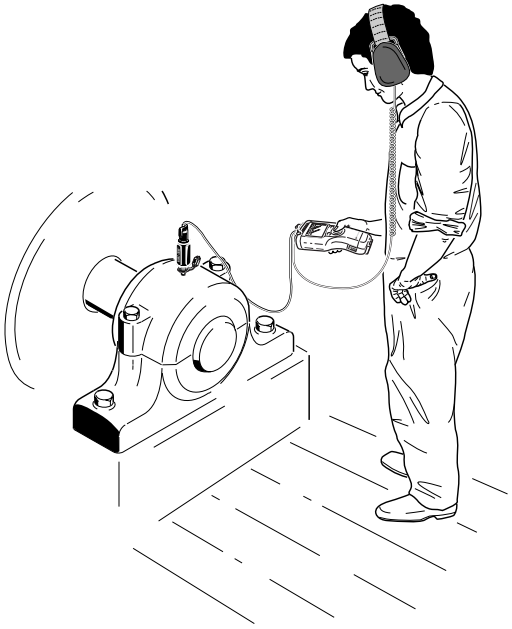
VIB 5.454 : VIBSCANNER pouch

Description
This practical and robust pouch lets you carry the VIBSCANNER data collector safely and comfortably on your daily inspection rounds. The pouch has an adjustable belt that is attached by snap hooks and has a side pocket for the VIBCODE transducers.

Material
CORDURA (Polyamide textile)

VIB 6.670 : Headphones





Description

The headphones can be used to listen to the machines and, in particular, roller bearings for the characteristic noises that indicate damage. The buffered transducer signal is picked up with the headphones at the analog output (yellow socket).

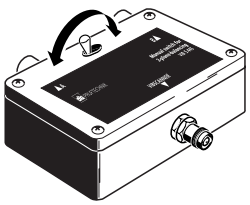
Technical data

PARAMETER		VIB 6.670
Electrical	Impedance	450 Ohm
	Frequency range	125 - 8000 Hz
	Volume limit (0.5 V / 1 kHz)	81 dB (A)
General	Connection	1 spiral cable for VIBSCANNER (MiniSnap)
	Weight	approx. 360 g

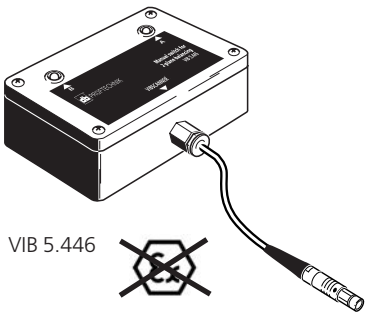
VIBSCANNER channel switches

VIB 5.445 : Manual channel switch for 2-plane balancing with VIBSCANNER

VIB 5.446 : Automatic channel switch for 2-plane balancing with VIBSCANNER



VIB 5.445



VIB 5.446

Application and function

The channel switch provides two inputs for accelerometers, which are merged into one output channel. The channel switching is done either via a toggle switch (VIB 5.445) or automatically controlled by the VIBSCANNER application program (VIB 5.446).

This simplifies e.g. the (sequential) balancing in two planes, because the accelerometers do not have to be unplugged when changing the balancing plane.

Connection

With the manual channel switch VIB 5.445, the accelerometers are connected each with a coaxial cable with TNC connector (VIB 311221-L). The channel switch itself is plugged in VIBSCANNER with the connection cable for line-drive accelerometers VIB 5.436.

The automatic channel switch VIB 5.446 is connected directly to VIBSCANNER. For each sensor, a connection cable for line-drive accelerometers (VIB 5.436) is required.

Note

The automatic switch cannot be operated with VIBSCANNER EX!

Accessories

VIB 5.436	Conn. cable for line-drive accelerometers
VIB 311221-L	Coaxial cable, TNC (2x), L= cable length

Technical data

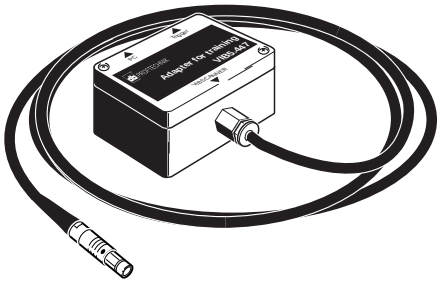
PARAMETER		VIB 5.445	VIB 5.445
Mechanical	Case material	Aluminium	
	Connections	1x TNC socket, 2x TNC socket	1x Cable with MiniSnap plug 2x MiniSnap sockets
	Dimensions L x B x H	97 x 63 x 35 mm	
	Weight	approx. 230 g	

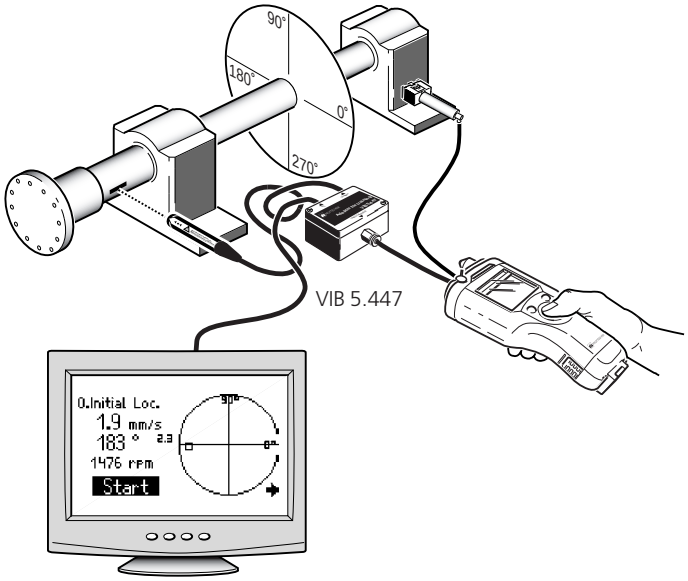
Application example

VIB 5.446 to VIBSCANNER

VIB 5.446

VIB 5.447 : PC adapter for the VIBSCANNER training tool





Description

The VIBSCANNER training tool can be used to show the VIBSCANNER display on a PC monitor for demonstrations and training courses. The digital input on the VIBSCANNER (yellow socket) is used to make the connection to the PC.

Since this interface is also used for RPM measurements, the PC adapter VIB 5.447, providing two inputs, must be used for the demonstration of the corresponding measurement tasks (e.g. balancing, RPM measurement).

Technical data

PARAMETER		VIB 5.447
General	Connections	1 cable for VIBSCANNER 2 sockets for trigger and PC cable
	Dimensions (L x W x H)	approx. 65 x 50 x 35 mm
	Cable length	2.9 m
	Weight	approx. 130 g
	Case material	Macrolon

OMNITREND for VIBSCANNER

VIB 8.955 :	OMNITREND for VIBSCANNER, Software package
VIB 8.956 :	OMNITREND ‚View' for VIBSCANNER, Software package
VIB 5.481 :	VIBSCANNER device driver for OMNITREND
VIB 5.480-P :	PC licence for VIBSCANNER

Description

The OMNITREND software package **VIB 8.955** contains the CD ROM and the following items:

VIB 5.480-P	PC licence (Communication password for one VIB-SCANNER instrument)
VIB 5.480-OMT	Password certificate (Registration of the OMNITREND full version; will only be sent out after the request for the registration password ('Return fax') has been received.
VIB 9.631.G	OMNITREND, Getting started

With the OMNITREND View software package **VIB 8.956** only multimode measurement can be imported in the database (no route data). The VIB 8.956 package contains the CD ROM and the following items:

VIB 5.480-P	PC licence (Communication password for one VIB-SCANNER instrument)
VIB 8.956-OMT	Password certificate (Registration of the OMNITREND full version; will only be sent out after the request for the registration password (‘Return fax’) has been received.
VIB 9.631.G	OMNITREND, Getting started

The device driver **VIB 5.481** is required to operate the OMNITREND software already available with the VIB-SCANNER. VIB 5.481 contains:

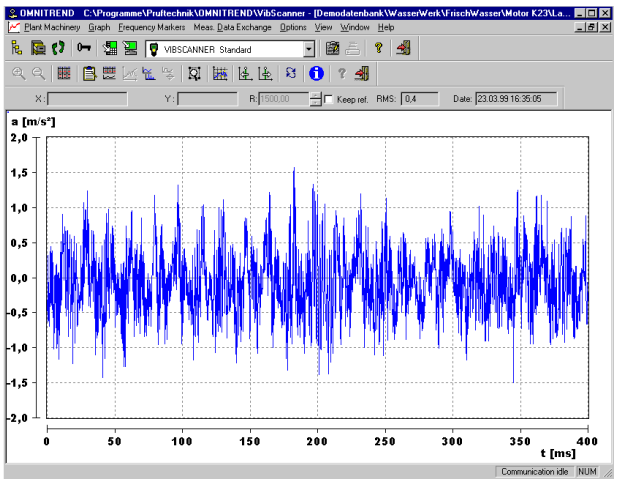
VIB 5.480-P	PC licence (Communication password for one VIB-SCANNER instrument)
VIB 5.480-OMT	Password certificate (Registration of the OMNITREND full version; will only be sent out after the request for the registration password (‘Return fax’) has been received.
VIB 9.631.G	OMNITREND, Getting started

Each further VIBSCANNER is registered with a separate **VIB 5.480-P** PC license.

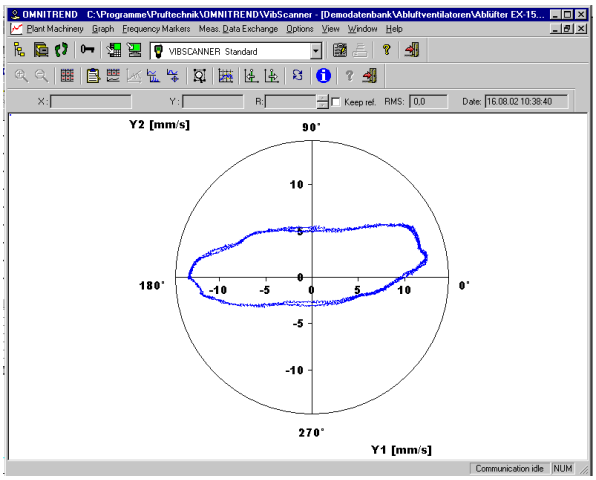
Order information

To simplify the order processing, please fax any existing registration certificates when ordering.

VIB 8.962 : OMNITREND Signal Analysis module



Zeitsignal



Orbit-Diagramm

Description

The OMNITREND Signal Analysis module is available as an upgrade for an already registered OMNITREND installation. This software module enables the display and evaluation of the following measured data, which were recorded with the VIBSCANNER:.

If OMNITREND for VIBSCANNER **VIB 8.955** is registered, then

- Time waveform (Multimode & Route)
- Orbit (Multimode)

can be evaluated.

if OMNITREND 'View' for VIBSCANNER **VIB 8.956** is registered, then

- Recording data

can be evaluated.

The registration of the Signal Analysis module also activates the gear editor VIB 8.961.

Order information

The 'Signal analysis' module is only available if an OMNITREND version is ordered at the same time, or is already registered. Therefore, please also fax us the existing OMNITREND registration certificate when ordering an upgrade.

Serial PC cables for VIBSCANNER

VIB 5.430-2 :Serial PC cable
VIB 5.448 : Adapter cable, serial to USB

VIB 5.430-2

VIB 5.448

Application

These cables are used for data transmission via the serial interface.

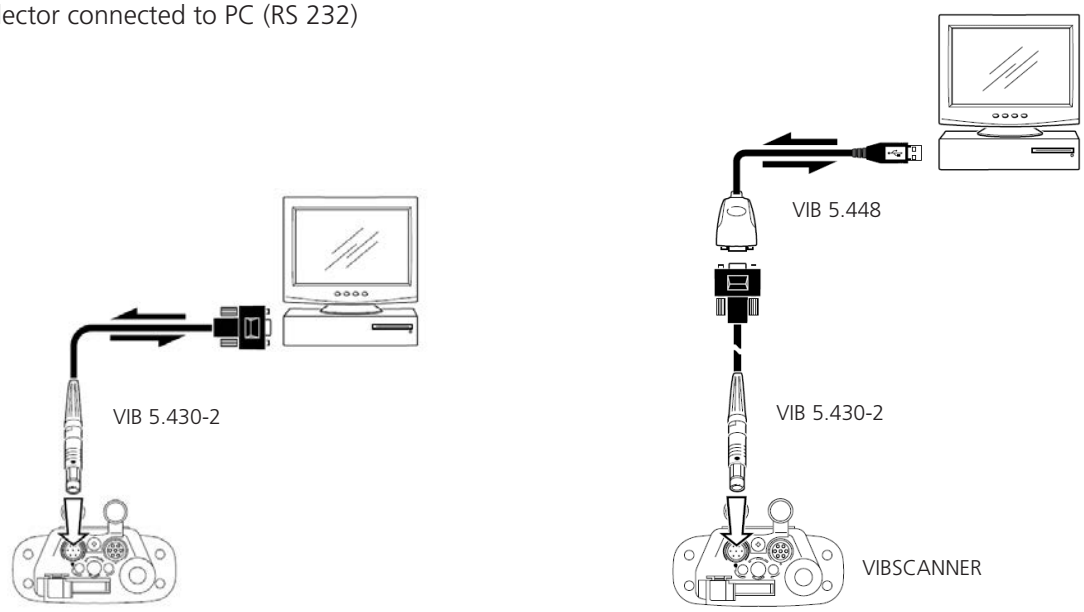
The adapter cable VIB 5.448 is additionally required if the PC or the laptop only has a USB port.

Cable lengths

VIB 5.430-2	approx. 2 m
VIB 5.448	approx. 0.2 m

Application example

Data collector connected to PC (RS 232)



VIB 5.431 : Cable for analog signal output

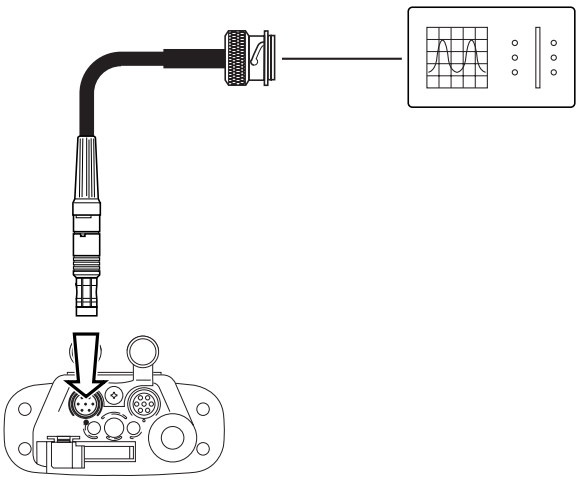
Application

In order to analyze the measured analog signal, a headset (> 450 Ohm) or an analytical instrument (e.g. oscilloscope) can be connected with this cable to the following data collectors:

- VIBXPERT II
- VIBXPERT I
- VIBXPERT EX
- VIBSCANNER
- VIBSCANNER EX

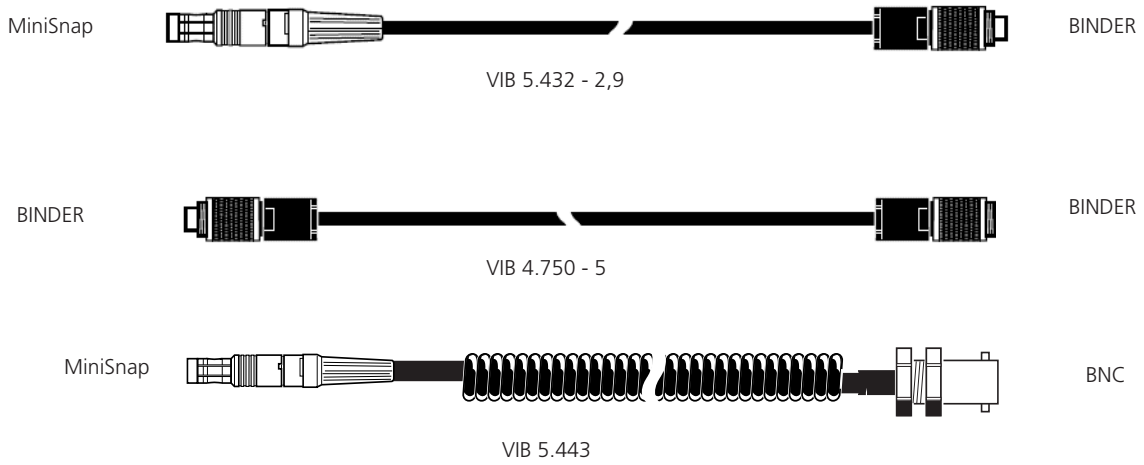
Cable length: 0.7 to 1.8 meters

Application example



Connection cables for RPM sensors and trigger sensors

VIB 5.432-2,9 :	Connection cable for RPM sensors
VIB 4.750-5 :	Cable extension for VIB 5.432-2,9
VIB 5.443 :	Connection cable for TTL trigger sensors



Application

The VIB 5.432-2,9 cable is used to connect the PRÜFTECHNIK RPM sensors VIB 6.631 or VIB 6.631 EX to the following data collectors:

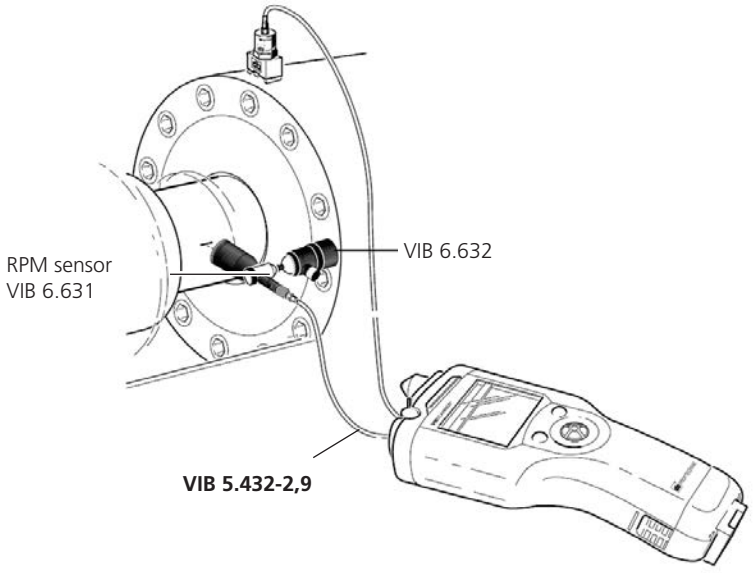
- VIBXPERT II
- VIBXPERT I
- VIBXPERT EX
- VIBSCANNER
- VIBSCANNER EX

The VIB 5.443 cable is used to connect a trigger sensor from other manufacturers.

Cable lengths

VIB 5.432-2,9	2.5 m
VIB 4.750-5	5.0 m
VIB 5.443	0.45 - 1.6 m

Application example



Cable adapters for the measurement of signal-low voltage / current with VIBSCANNER

VIB 5.433 : Cable adapter for the measurement of signal-low voltage with VIBSCANNER

VIB 5.434 : Cable adapter for the measurement of signal-low current with VIBSCANNER

Application

These cable adapters are used to measure signal-low voltage (AC: 0-30V) or signal levels (DC: 0-30V; 0-30 mA) provided by other measuring instruments.

An additional cable with at least one BNC plug is required to connect the adapter cable to the signal-measuring instrument.

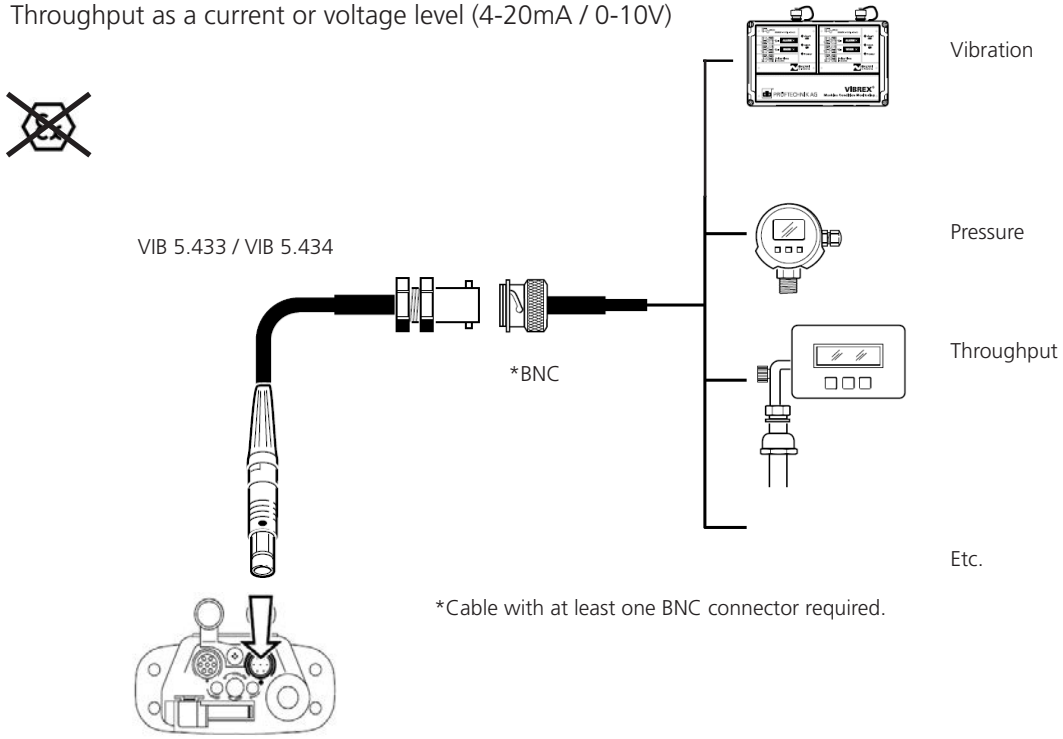
The length of the spiral cable is 0.7 to 1.8 meters.

Safety note

The cable adapters may not be used in hazardous areas!

Application examples

- Connection to VIBREX: Vibration as a current level (4-20mA)
- Connection to pressure transmitter: Pressure as a current level (4-20mA)
- Connection to continuous flow measuring instrument: Throughput as a current or voltage level (4-20mA / 0-10V)



*Cable with at least one BNC connector required.

VIB 5.433-X : Cable adapter for the measurement of signal-low voltage with VIBSCANNER EX

Application

This cable adapter is used to measure signal-low voltage (AC/DC: 0-30V) provided by other measuring instruments.

An additional cable with at least one BNC plug is required to connect the adapter cable to the signal-measuring instrument.

Safety notes

The cable adapter may not be used in hazardous areas!

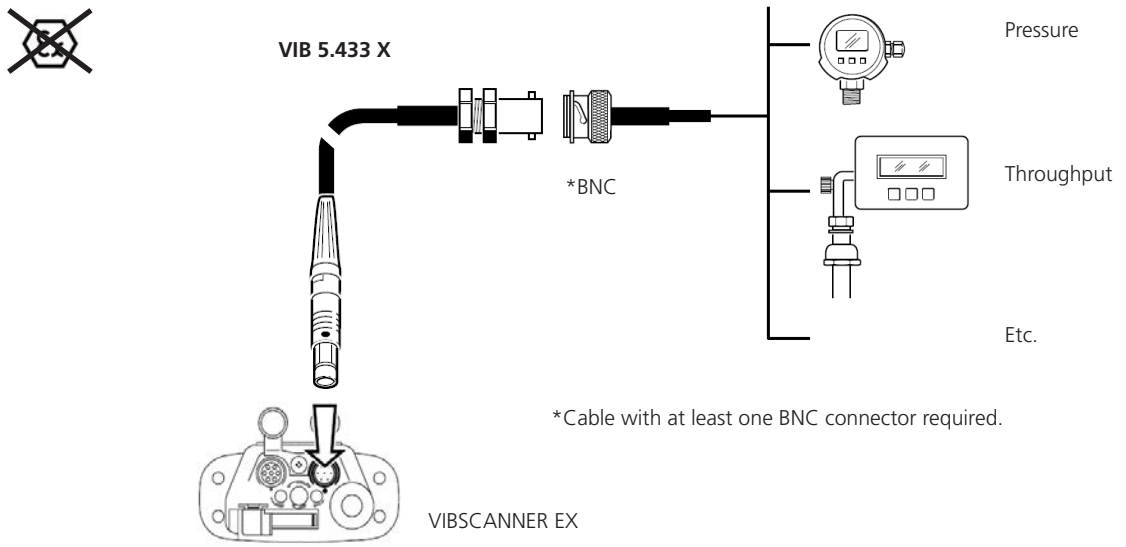
The cable adapter protects the analog port of the data collector (VIBSCANNER EX) against surges. The adapter must be connected with the data collector only outside the hazardous area to an electrical circuit, whose maximum voltage does not exceed 265 $V_{rms.}$ when a malfunction occurs.

Technical data

PARAMETER		VIB 5.433-X
General	Cable length	0.7 ... 1.8 m
	Temperature range	0°C ... + 40°C
	Maximum measurement error	-2.0% / +2.7%
	Upper frequency for AC measurements	5 kHz

Application example

Pressure / Throughput as a voltage level (0-10V)



VIB 5.332-X : Keyphaser adapter for machine protection systems (VIBSCANNER EX)

Application

This adapter converts a pulse signal (including the DC level) to a 5V rectangular signal. This makes it possible to connect keyphaser, such as from the Bently Nevada, with measuring devices from PRÜFTECHNIK:

- VIBXPERT EX
- VIBSCANNER EX

Connection

On the device side, the adapter is equipped with an 8-pin binder socket that is connected to trigger cable VIB 5.432-2,9. The signal input side provides a BNC socket.

Safety notes

The cable adapter may not be used in hazardous areas!

The cable adapter protects the digital port of the data collector (VIBXPERT EX or VIBSCANNER EX) against surges. The adapter must be connected with the data collector only outside the hazardous area to an electrical circuit, whose maximum voltage does not exceed 265 $V_{rms.}$ when a malfunction occurs.
Ambient temperature: 0°C to + 40°C.

Technical data

PARAMETER		VIB 5.332-X
Electrical	Operating voltage	5.4 V ± 10%
	Power consumption	0,5 mA
	Input signal, Pulse width	> 100 µs
	-, Pulse level	> 500 mV_{pp}
	-, DC fraction	+8 V to -30 V
	Output signal	5 V, rectangular signal
	Input resistance	200 kOhm
	Output resistance	1 kOhm
Mechanical	Housing material	Stainless steel, VA 1.4301
	Length, incl. connectors	130 mm
	Diameter	15 mm
	Weight	30 g
	Env. protection class	IP 65
	Temperature range	0°C ... +40°C
Interfaces	Input signal	Binder connector, 8 pin, 712 series
	-, Pin allocation	2 / 5V, 4 / rectangular signal, 7 / GND
	Output signal	BNC connector
	-, Pin allocation	internal contact / signal, external contact / GND

Connection cables for current line-drive accelerometers

VIB 5.436 :	Spiral connection cable for current line-drive accelerometer
VIB 5.437-2,9 :	Straight connection cable for current line-drive accelerometer, 2.9 meters
VIB 5.437-5 :	Straight connection cable for current line-drive accelerometer, 5 meters

VIB 5.436

VIB 5.437-2,9
VIB 5.437-5

Application

These cables are used to connect mobile industrial accelerometers with current line-drive output to the following PRÜFTECHNIK data collectors:

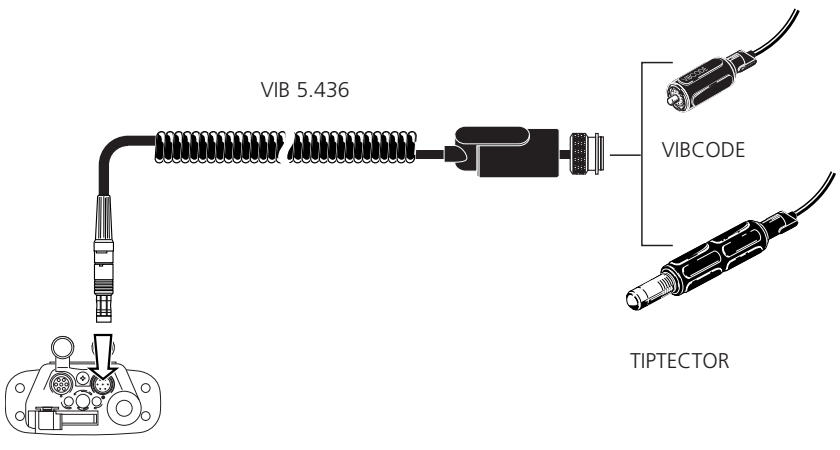
- VIBXPERT II
- VIBXPERT I
- VIBXPERT EX
- VIBSCANNER
- VIBSCANNER EX

Cable lengths

VIB 5.436	0.7 ... 1.8 m
VIB 5.437-2,9	2.9 m
VIB 5.437-5	5 m

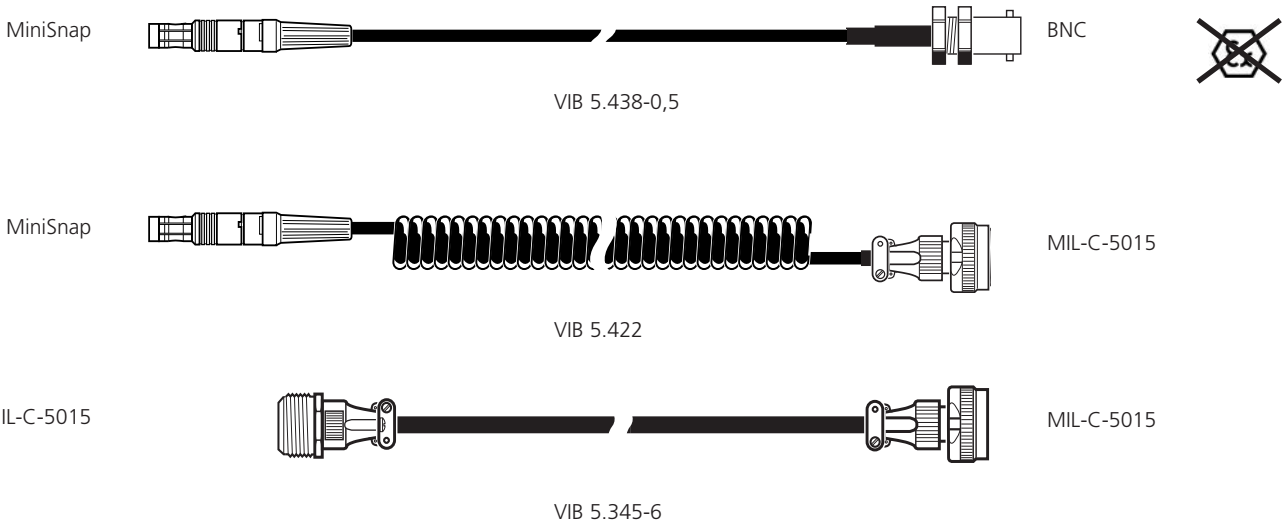
Connection examples

VIBCODE / TIPTECTOR connected to VIBSCANNER



Connection cables for ICP-type accelerometers

VIB 5.438-0,5 :	Straight connection cable for ICP-type accelerometer, 0.5 meters, BNC-connector
VIB 5.422 :	Spiral connection cable for ICP-type accelerometer, MIL-connector
VIB 5.345-6 :	Cable extension for VIB 5.422, 6 meters, MIL-connector



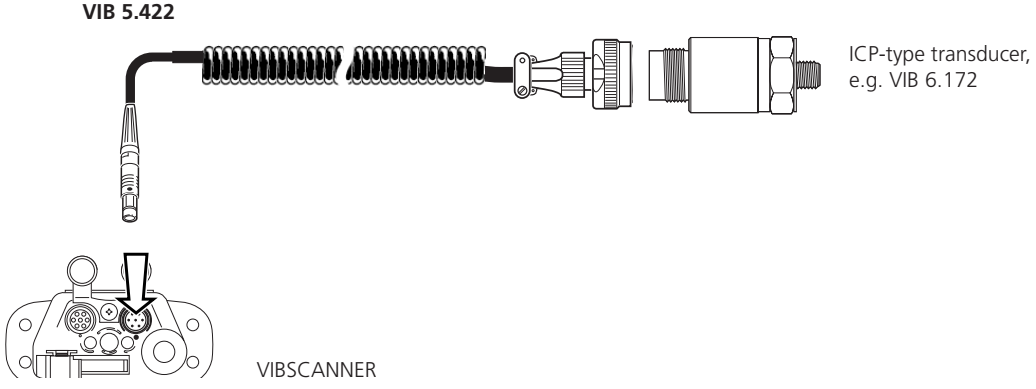
Application
Standard sensor cables for connecting an ICP-type accelerometer or a microphone to VIBSCANNER.

Cable lengths
VIB 5.438-0,5 0.5 m
VIB 5.422 0.7 ... 1.8 m
VIB 5.345-6 6 m

Notes
Applies to cable VIB 5.438-0,5: Depending on which type of connector the accelerometer has (e.g. Microdot, BNC, MIL-C-5015,...), a suitable cable must have at least one BNC connector.

ATTENTION:
ICP-type accelerometers may not be used in hazardous areas.

Connection examples
ICP-type transducer connected to VIBSCANNER



VIB 5.439 : Connection cable for Pt100 temperature probe

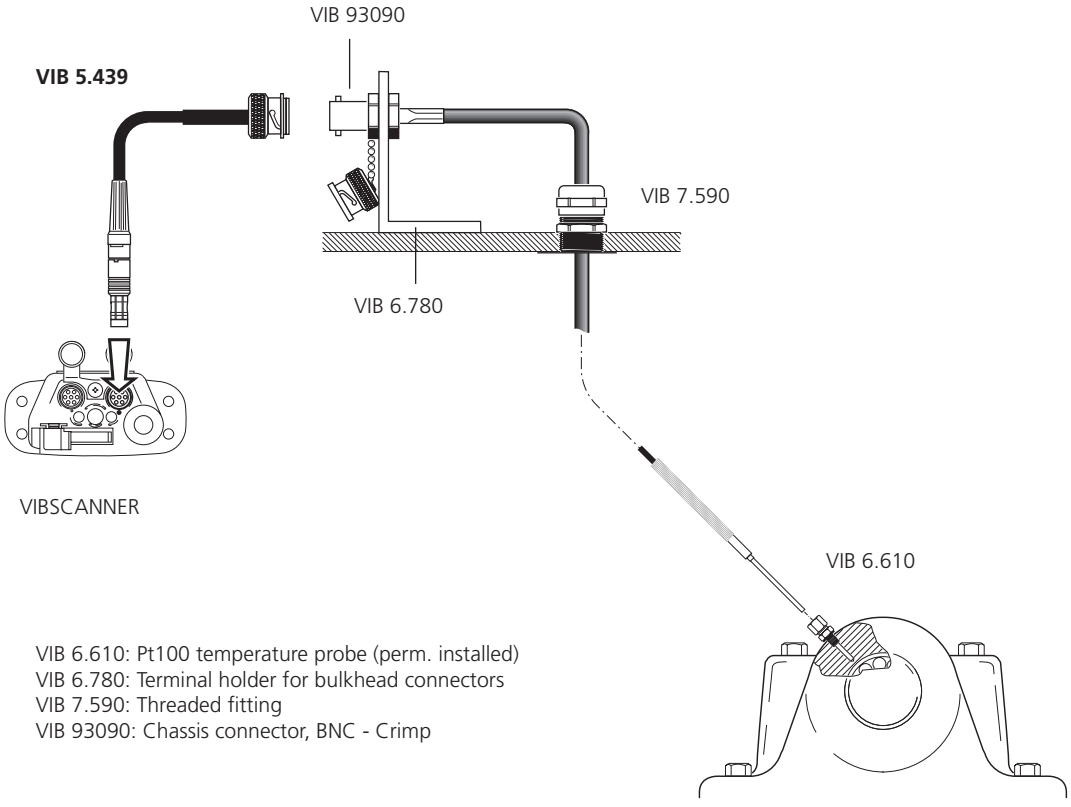
Application

This cable is used to connect a Pt100 temperature probe to VIBSCANNER for temperature measurements.

Cable length: 0.7 ... 1.8 meters

Connection example

Pt100 probe connected to VIBSCANNER



VIB 6.610: Pt100 temperature probe (perm. installed)
VIB 6.780: Terminal holder for bulkhead connectors
VIB 7.590: Threaded fitting
VIB 93090: Chassis connector, BNC - Crimp

VIB 5.444-5 : Universal extension for analog sensor cable, 5 meters

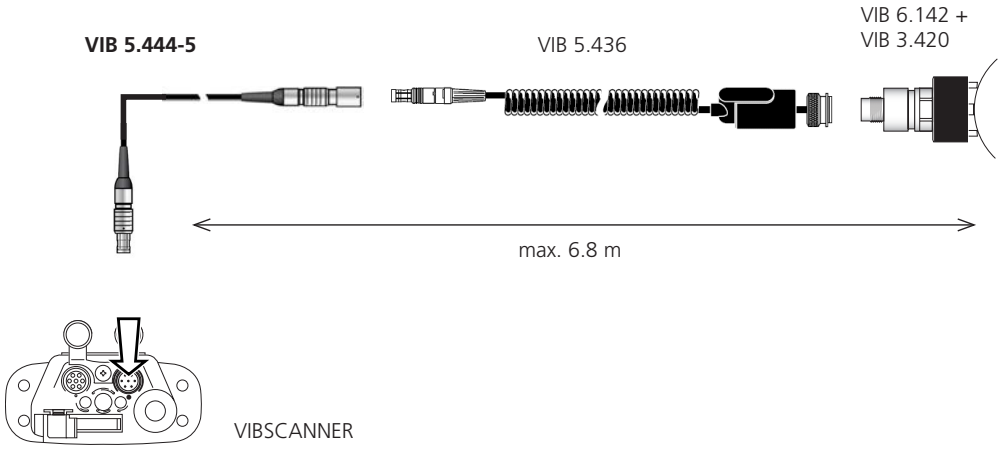
Application
This cable is used to extend the analog sensor cable by up to 5 meters.

Extendable sensor cables:

VIB 5.436	Spiral cable for current line-drive transd.
VIB 5.437-2,9	Straight cable, Current line-drive, 2.9 m
VIB 5.437-5	Straight cable, Current line-drive, 5 m
VIB 5.438-0,5	Straight cable, ICP-type, BNC connector
VIB 5.422	Spiral cable, ICP-type, MIL connector
VIB 5.440	VIBREX cable (mV)
VIB 5.433	Signal-low voltage cable adapter
VIB 5.433 X	Signal-low voltage cable adapter, VIBSCANNER EX
VIB 5.434	Signal-low current cable adapter
VIB 5.342	Cable for VST 24V adapter

Applies to all cables, except current line-drive:
For cable lengths greater than 2.9 meters, the EMC immunity of the signal path can not be guaranteed.

Connection example



VIB 5.339: Cable extension for Current Linedrive accelerometer, 8 meters

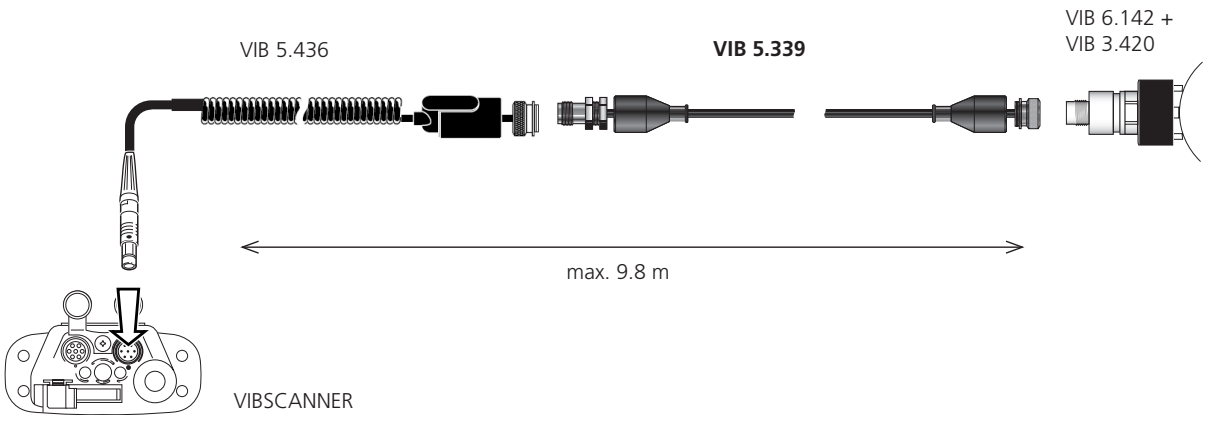
Application

With this cable, the Current Linedrive sensor cables can be extended by up to eight meters.

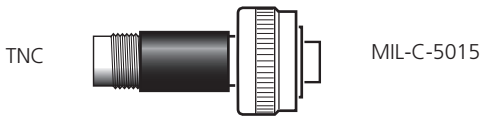
Extendable sensor cables:

VIB 5.436 Linedrive spiral cable
VIB 5.437-2,9 Linedrive cable, straight, 2.9m
VIB 5.437-5 Linedrive cable, straight, 5m

Connection example



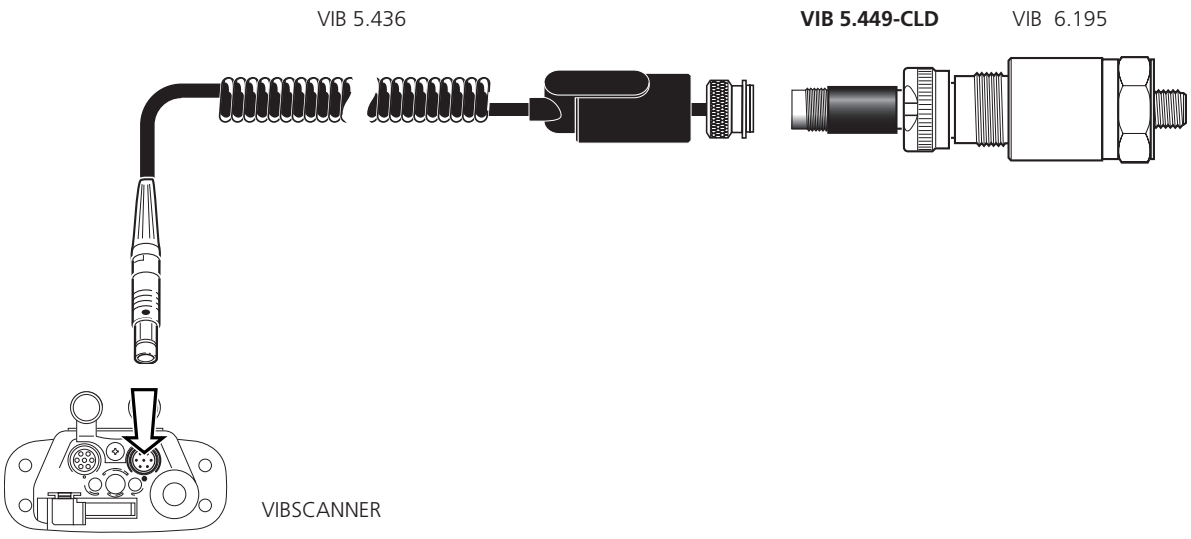
VIB 5.449-CLD: Cable adapter for accelerometer VIB 6.195



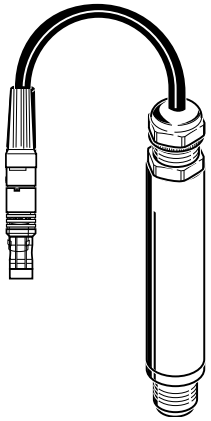
Application

This adapter is used to connect accelerometers with Mil-type connectors, e.g. VIB 6.195 (CLD type) to VIBSCANNER.

Connection example



VIB 8.746-VS: SPM cable adapter for VIBSCANNER



Application

The SPM cable adapter is used to connect the VIBSCANNER data collector to existing SPM 40000 or TRA 30 measurement sensors by converting the voltage signal to a current signal.

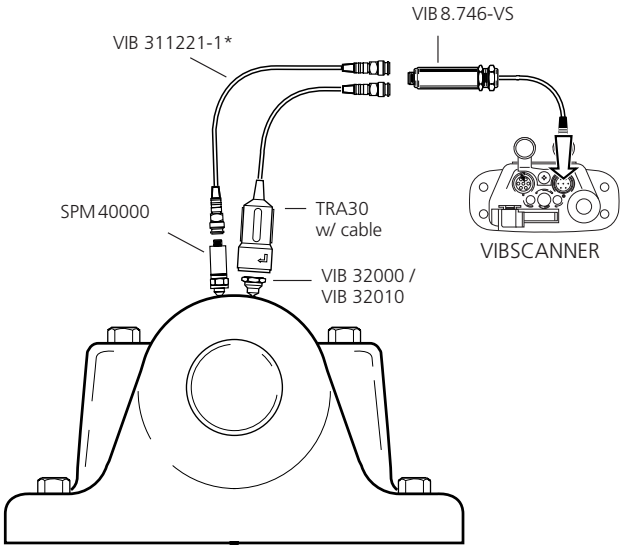
Note

The SPM cable adapter may not be used in hazardous areas!

Technical data

PARAMETER		VIB 8.746-VS
General	Input	MiniSnap
	Output	TNC
	Length	approx. 240 mm
	Diameter	16 mm

Connection example



* This cable is not included in the scope of delivery

Index by oder number

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Printed in Germany LIT.54.700.11.2014.EN
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PRÜFTECHNIK

Productive maintenance technology