

# **VIBSCANNER<sup>®</sup>** **smartSCANNER<sup>™</sup>**

Machine diagnostics  
Data collection  
Field balancing  
Shaft alignment

## Catalog



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# Chapter 1

## VIBSCANNER












## VIBSCANNER - Signal analyzer and FFT data collector

1

2



-  **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)

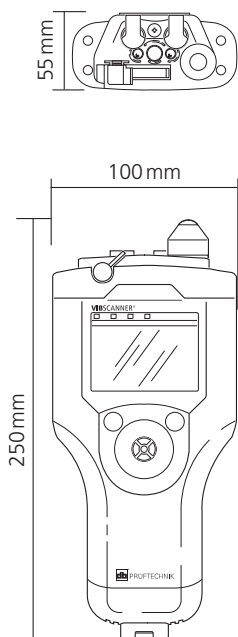
CLD: Current Line Drive (sensor w/ current output)



**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 ( $\pm 30$ V; 0 - 20 mA) DC ( $\pm 30$ 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 $\pm 10\%$	10 Hz ... 10 kHz (in cone sinking)	
	Resonance frequency	36 kHz (in cone sinking)	
	Noise, from 10 Hz	0.1 mm/s effective; 2 $\mu$ m effective (Instrument + Sensor); $< 0$ dB <sub>sv</sub> , 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: 1 $\mu$ A/ms <sup>2</sup> ; ICP: 100mV/g) and to external measuring instruments (1mV/ms <sup>2</sup> ):	
	Acceleration	$< 961$ m/s <sup>2</sup> (p-p) / 1% (internal sensor) $< 6000$ m/s <sup>2</sup> (p-p) / 1% (external sensors)	
	Velocity	$< 9000$ mm/s (p-p) / 1%	
	Displacement	$< 9000$ $\mu$ m (p-p) / 1%	
	Shock pulse	$< 81$ dB <sub>sv</sub> / $\pm 3$ dB	
	RPM	60 ... 60000 min <sup>-1</sup> / 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	$+10^\circ\text{C} \dots +40^\circ\text{C}$	
	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	$0^\circ\text{C} \dots +60^\circ\text{C}$	$0^\circ\text{C} \dots +45^\circ\text{C}$
	Storage temperature	$-20^\circ\text{C} \dots +80^\circ\text{C}$	$0^\circ\text{C} \dots +45^\circ\text{C}$
	Weight	approx. 690 g	
Intrinsic safety	n/a	Ⓔ II 2 G Ex ib IIC T4 U.S. equivalent NEC 505: Class I, Zone 1, AEx em ib IIC, T4	

**Dimensions**



1  
2

# VIBSCANNER firmware structure

1

## 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:

2

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

## 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

**Balance limited**  
VIB 5.489

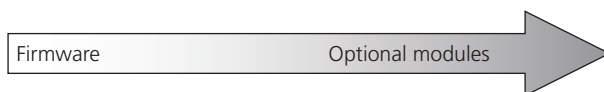
Basic

Balancing

Signal analysis

FFT analysis

,Basic' must be registered



VIBSCANNER Standard

**Basic**  
VIB 5.480

Alignment

Balancing

Signal analysis

FFT analysis



# 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

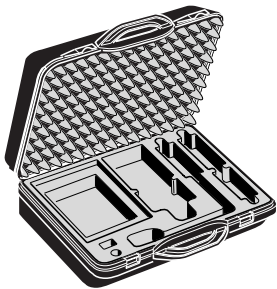
FFT ANALYSIS		VIB 5.485-FM
Spectrum	Meas. quantities	Velocity / displacement / acceleration as machine-specific measurement tasks
	Signal processing	Amplitude and Envelope spectra
	Frequency range	5 ranges: 0,1 / 0,2 / 0,4 / 1 / 5 / 10 kHz (10 kHz is an option for VIBSCANNER EX)
	Number of lines	400 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 <sub>max</sub>	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

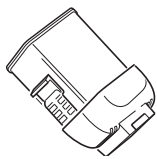
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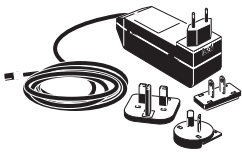
VIB 5.428



VIB 8.970



VIB 5.425



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



## 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

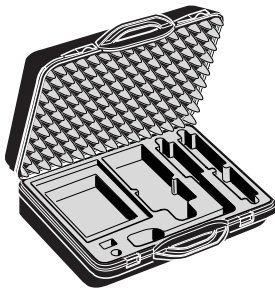
- VIB 9.638.G VIBSCANNER operating instructions
- VIB 9.664.G VIBSCANNER operating instructions 'Balancing, FFT & signal analysis'
- VIB 9.669.G VIBSCANNER short instructions
- LIT 01.800 CD ROM, Condition Monitoring catalogs, brochures, magazines

- 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.

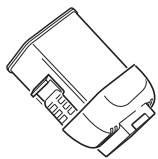
**VIB 5.460 EX : Maintenance package with intrinsic safety**



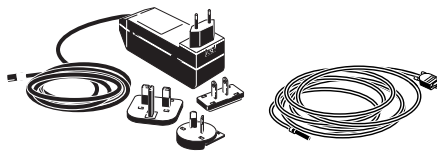
VIB 5.428



VIB 8.970



VIB 5.425 EX



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



**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

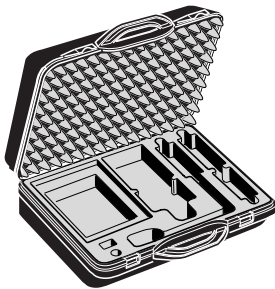
- Not shown
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- VIB 5.480-L Basic firmware license
- VIB 5.485-FM VIBSCANNER firmware FFT

**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

1  
2



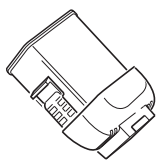
VIB 5.428



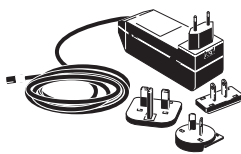
VIB 8.955



VIB 5.400



VIB 5.425



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

**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
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- 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.

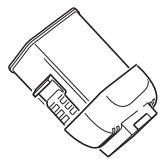
**VIB 5.464 EX : VIBSCANNER Trending package with intrinsic safety**



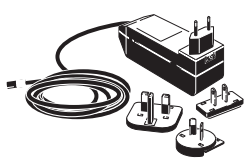
VIB 5.428



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



**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
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- 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

1  
2



VIB 5.428



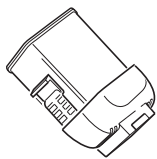
VIB 8.660 VS



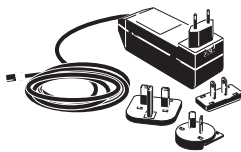
VIB 8.955



VIB 5.400



VIB 5.425



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

## 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



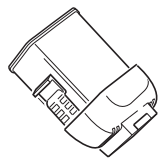
VIB 8.660 XVS



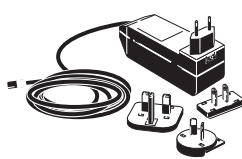
VIB 8.955



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



**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

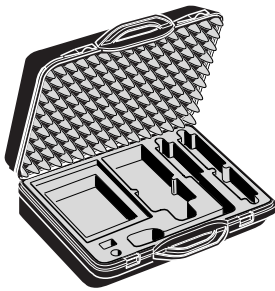
- Not shown
- VIB 5.480 VIBSCANNER basic firmware
- VIB 5.480-L Basic firmware license
- VIB 5.480-P PC license
- VIB 5.485-FM VIBSCANNER firmware FFT

**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

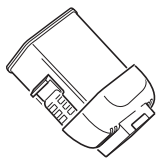
1  
2



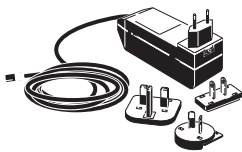
VIB 5.428



VIB 8.660 VS



VIB 5.425



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

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'

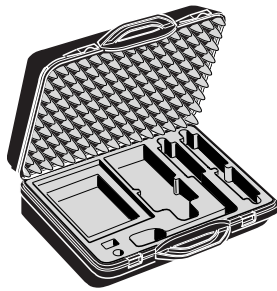
- VIB 9.669.G VIBSCANNER short instructions
- VIB 9.834.G VIBCODE operating instructions
- LIT 01.800 CD ROM, Condition Monitoring catalogs, brochures, magazines

- 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.

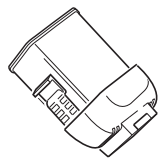
**VIB 5.465 EX : Additional VIBCODE package for VIBSCANNER with intrinsic safety**



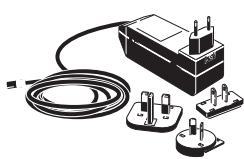
VIB 5.428



VIB 8.660 XVS



VIB 5.425 EX



VIB 5.420-INT



VIB 5.430-2



VIB 5.448



VIB 9.638  
VIB 9.664  
VIB 9.669  
VIB 9.834



VIB 9.631



LIT 01.800



VIB 5.400 EX



**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

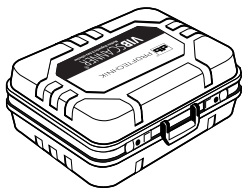
- VIB 5.480 VIBSCANNER basic firmware
- VIB 5.480-L Basic firmware license
- VIB 5.480-P PC license
- VIB 5.485-FM VIBSCANNER firmware FFT

**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

1  
2



VIB 5.429



VIB 6.631



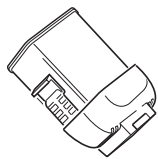
VIB 6.632



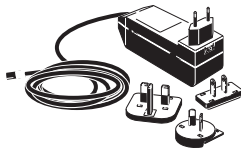
VIB 6.147



VIB 5.400



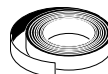
VIB 5.425



VIB 5.420-INT



VIB 3.420



VIB 3.306



VIB 5.448



VIB 5.430-2



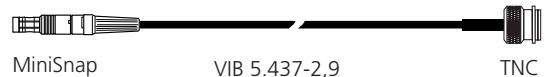
VIB 9.638  
VIB 9.664  
VIB 9.669



LIT 01.800



VIB 8.970



MiniSnap

VIB 5.437-2,9

TNC



MiniSnap

VIB 5.432-2,9

BINDER

## 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

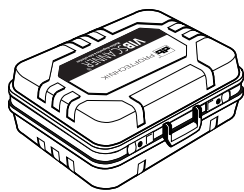
- VIB 3.306 Reflective tape, 10 mm
- VIB 3.420 Magnetic holder for curved mounting surfaces
- VIB 5.400 VIBSCANNER instrument (w/o battery)
- VIB 5.420-INT Battery charger
- VIB 5.425 Rechargeable battery
- VIB 5.429 Accessory case
- VIB 5.430-2 PC cable, serial
- VIB 5.432-2,9 Trigger cable, 2.9 m
- 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



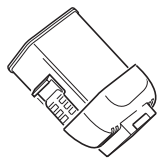
VIB 6.632



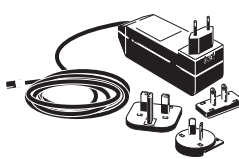
VIB 6.147



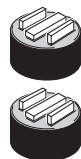
VIB 5.400



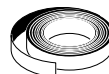
VIB 5.425



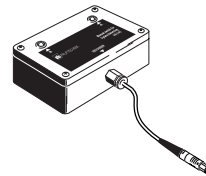
VIB 5.420-INT



VIB 3.420



VIB 3.306



VIB 5.446



VIB 5.448



VIB 5.430-2



MiniSnap

VIB 5.436

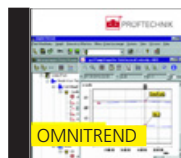
TNC



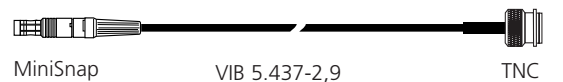
VIB 9.638  
VIB 9.664  
VIB 9.669



LIT 01.800



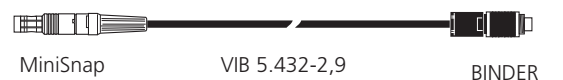
VIB 8.970



MiniSnap

VIB 5.437-2,9

TNC



MiniSnap

VIB 5.432-2,9

BINDER

**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**

1

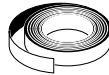
2



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.



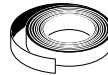
## VIB 5.486-XHW: VIBSCANNER transducer set for 1-plane balancing with intrinsic safety



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

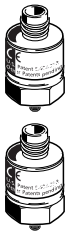
### Note

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

1

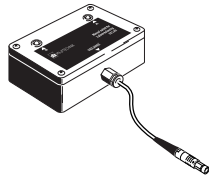
2



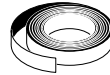
VIB 6.147



VIB 3.420



VIB 5.446



VIB 3.306



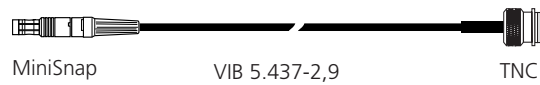
VIB 6.631



VIB 6.632



VIB 5.436



VIB 5.437-2,9



VIB 5.432-2,9

### 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.

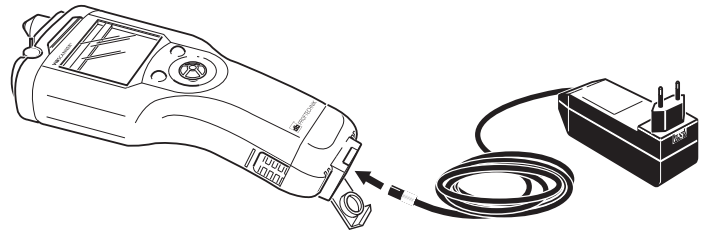
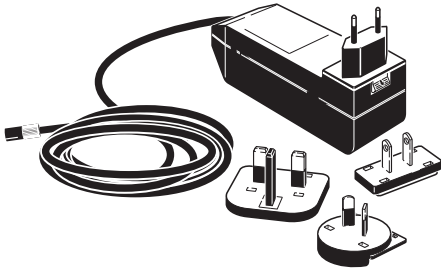
### Scope of supply

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

1

2



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.

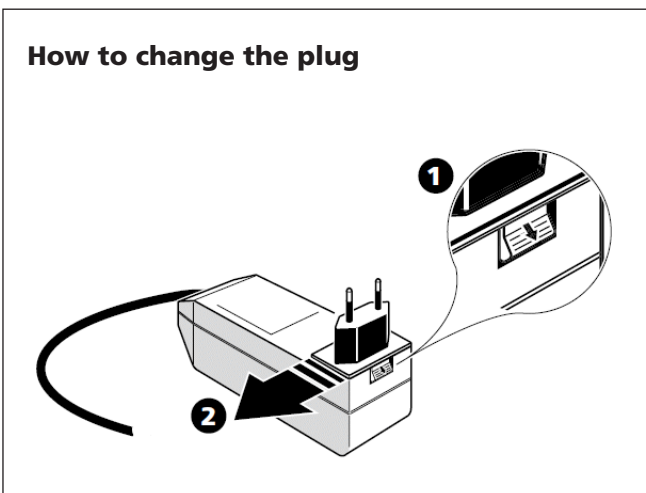
### ATTENTION!

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



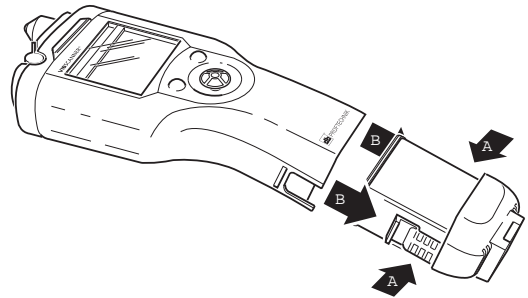
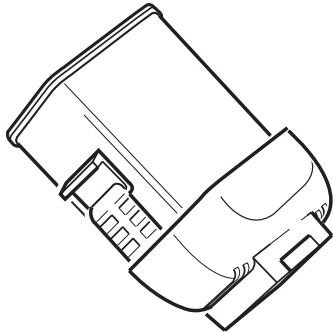
## VIBSCANNER rechargeable battery

VIB 5.425 : Rechargeable battery for VIBSCANNER

VIB 5.425 EX : Rechargeable battery for VIBSCANNER EX

1

2



### 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	

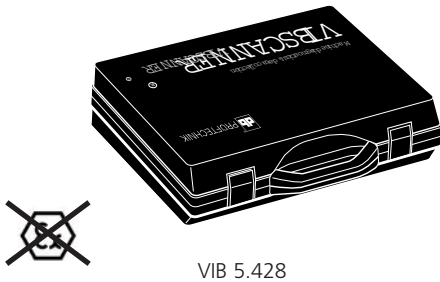
## VIBSCANNER cases

1

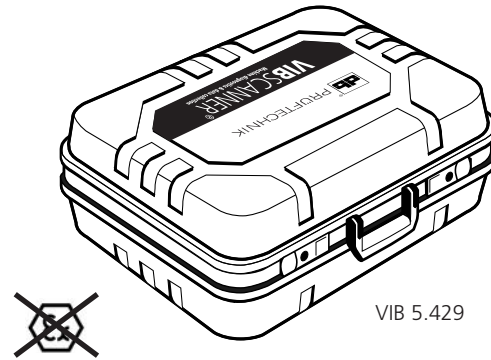
VIB 5.428 : Standard case for VIBSCANNER

VIB 5.429 : Accessory case for VIBSCANNER

2



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



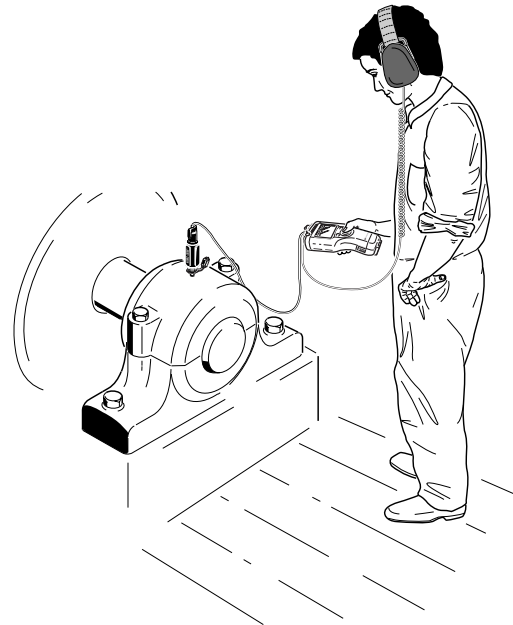
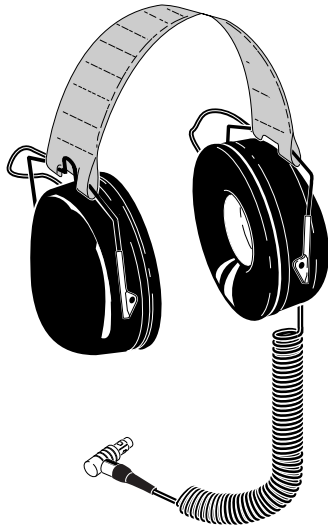
### Description

This practical and robust leather 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.

# VIB 6.670 : Headphones

1

2



### 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).

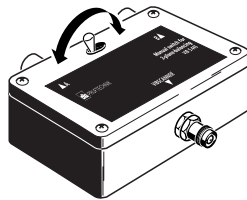
### Technical data

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

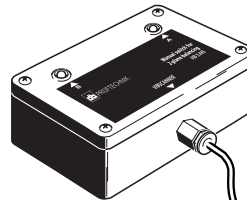
## VIBSCANNER channel switches

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

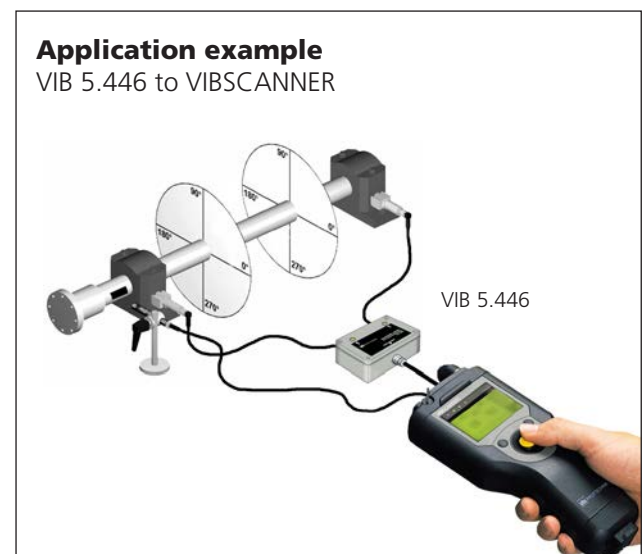
- VIB 5.436 Conn. cable for line-drive accelerometers
- VIB 311221-L Coaxial cable, TNC (2x), L= cable length

### 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	

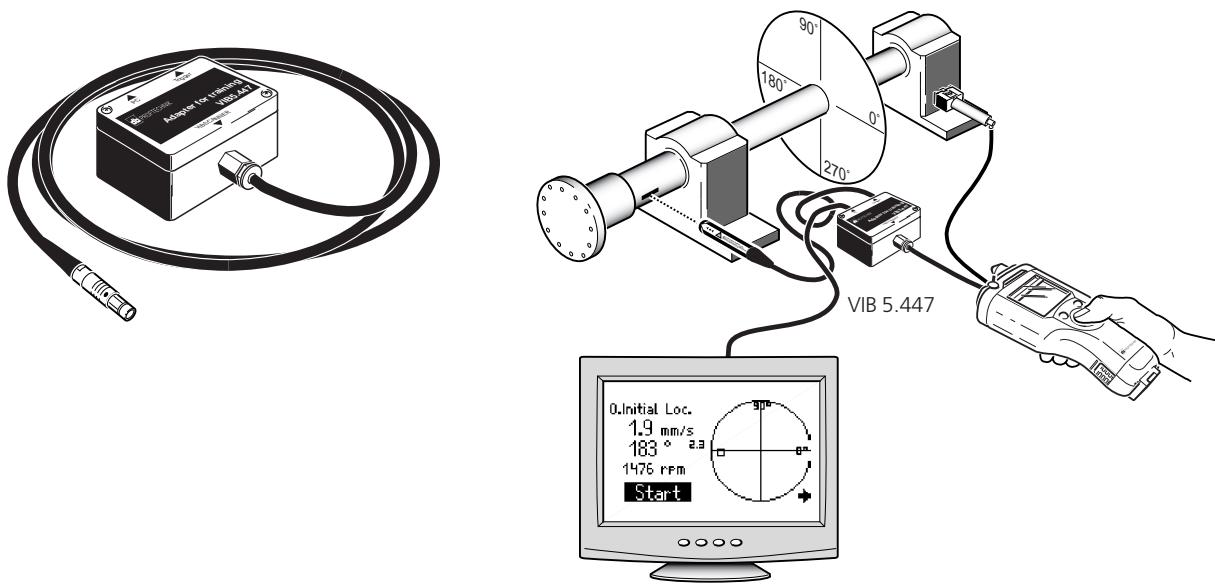
### Application example

VIB 5.446 to VIBSCANNER



# VIB 5.447 : PC adapter for the VIBSCANNER training tool

1  
2



### 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.

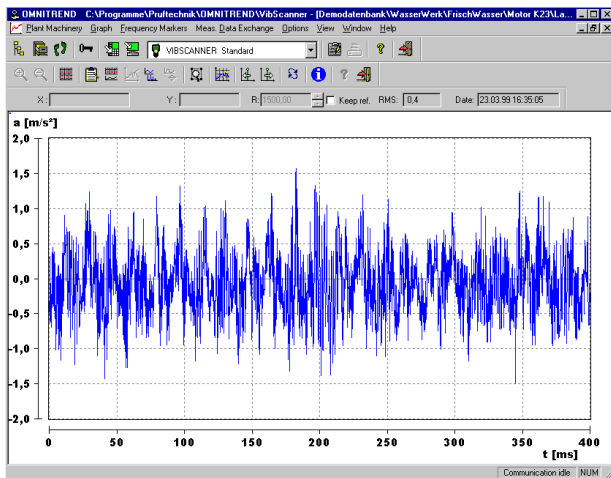
### Order information

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

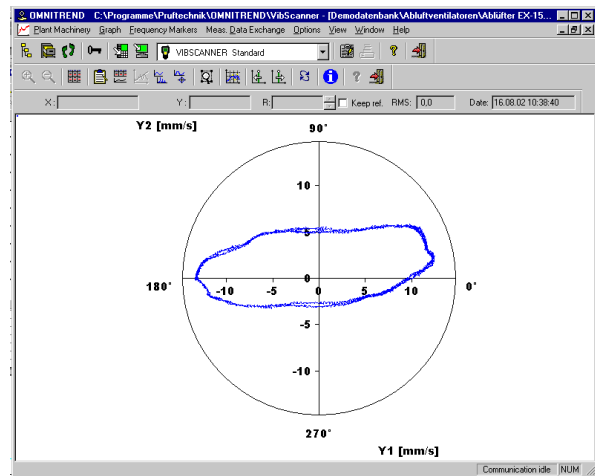
## VIB 8.962 : OMNITREND Signal Analysis module

1

2



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.

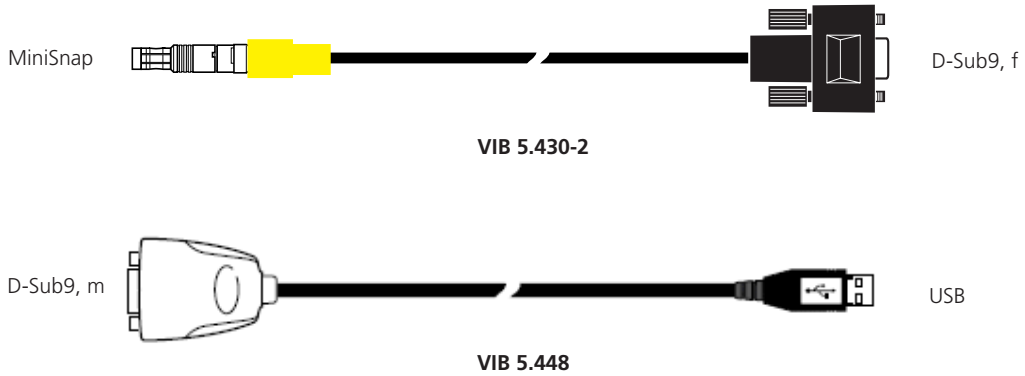
The registration of the Signal Analysis module also activates the gear editor VIB 8.961.

### 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



**Application**

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

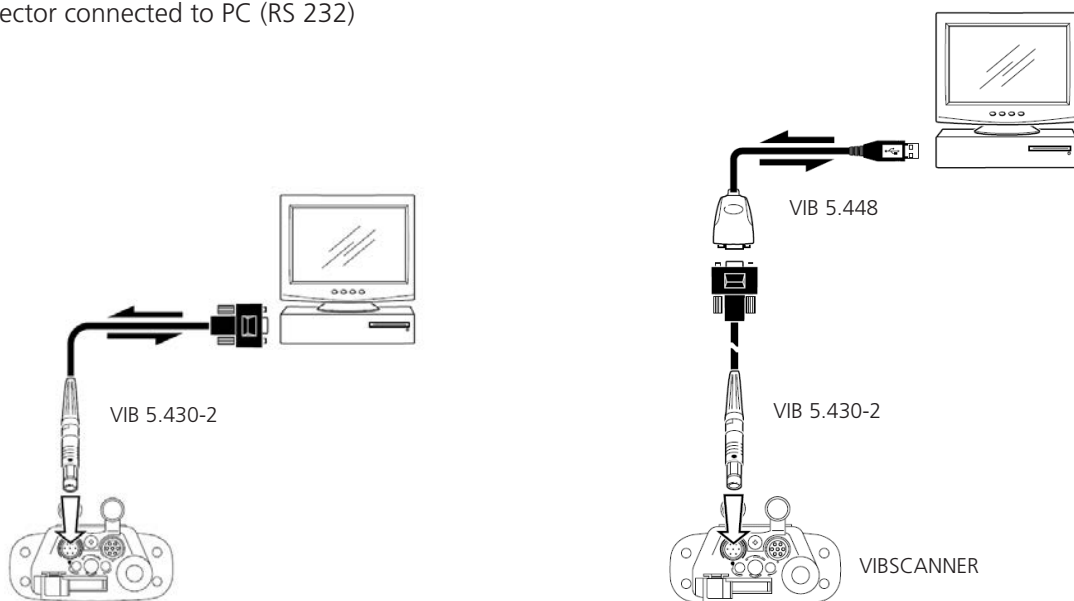
The adapter cable VIB 5.448 is additionally required if the PC or the laptop only has a USB port.

**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

**1****2**

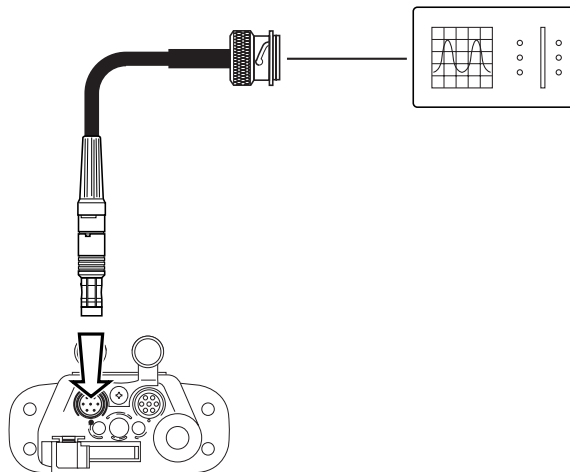
### Application

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

- VIBXPART II
- VIBXPART I
- VIBXPART EX
- VIBSCANNER
- VIBSCANNER EX

Cable length: 0.7 to 1.8 meters

### Application example

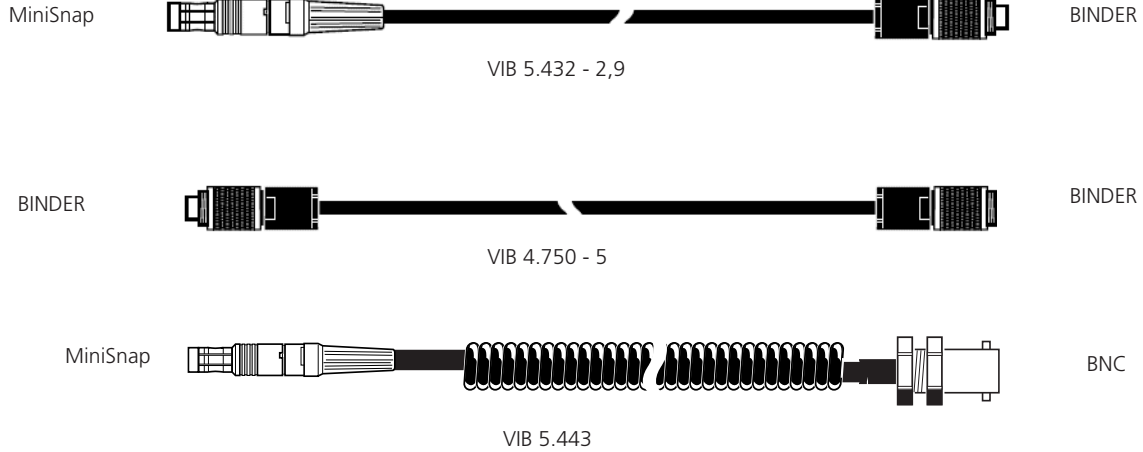


## Connection cables for RPM sensors and trigger sensors

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:

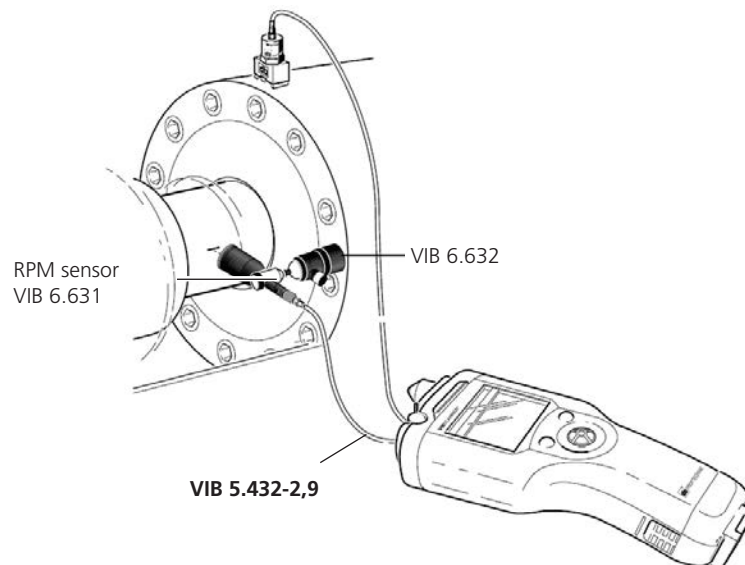
- VIBXPART II
- VIBXPART I
- VIBXPART EX
- VIBSCANNER
- VIBSCANNER EX

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

1

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

2



**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**

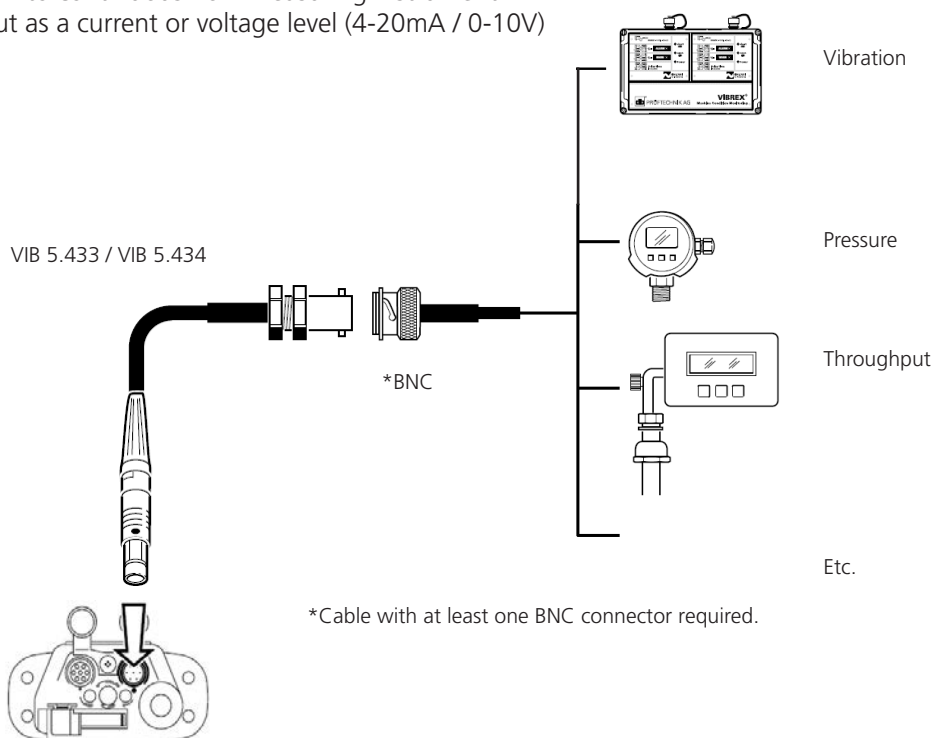
The cable adapters may not be used in hazardous areas!

**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)



VIB 5.433 / VIB 5.434



\*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!

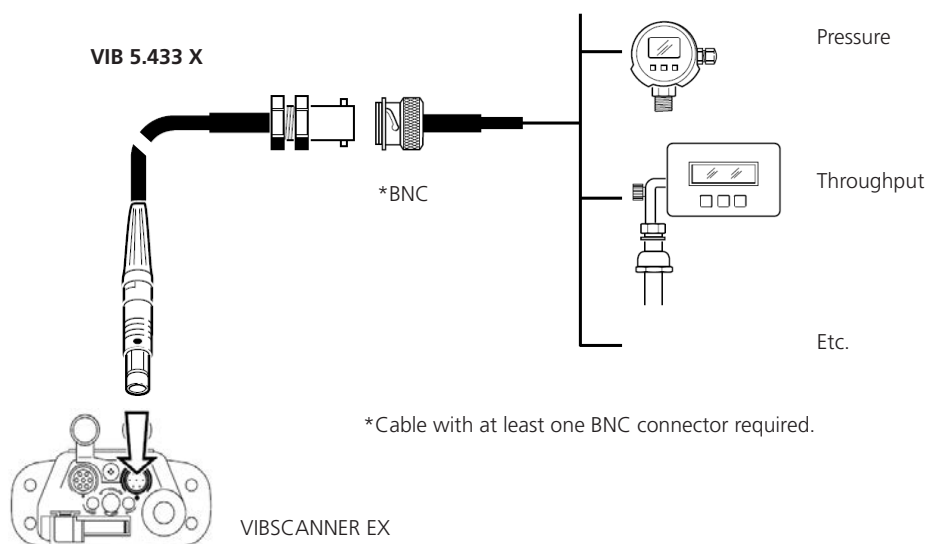
The cable adapter protects the analog port of the data collector (VIBSCANNER EX) against surges. The adapter must be connected with the data collector only outside the hazardous area to an electrical circuit, whose maximum voltage does not exceed  $265 V_{rms}$  when a malfunction occurs.

### 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)

1  
2



### 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<sub>rms</sub> when a malfunction occurs.

Ambient temperature: 0°C to + 40°C.

### Technical data

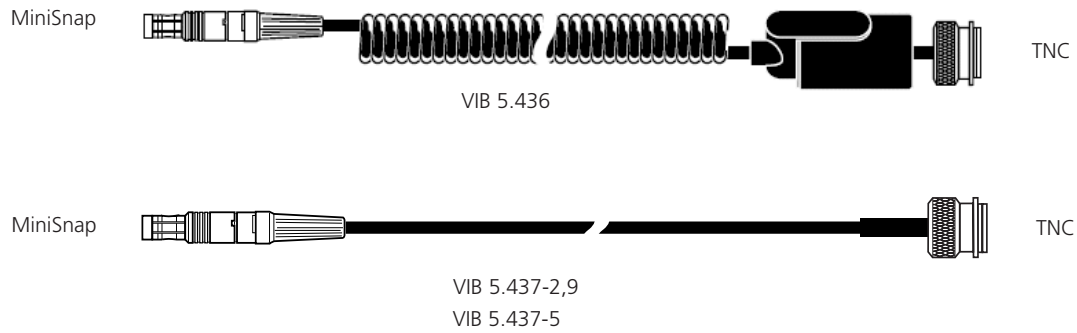
PARAMETER		VIB 5.332-X
Electrical	Operating voltage	5.4 V ± 10%
	Power consumption	0,5 mA
	Input signal, Pulse width	> 100 µs
	- , Pulse level	> 500 mV <sub>pp</sub>
	- , DC fraction	+8 V to -30 V
	Output signal	5 V, rectangular signal
	Input resistance	200 kOhm
	Output resistance	1 kOhm
Mechanical	Housing 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

1

2



### Application

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

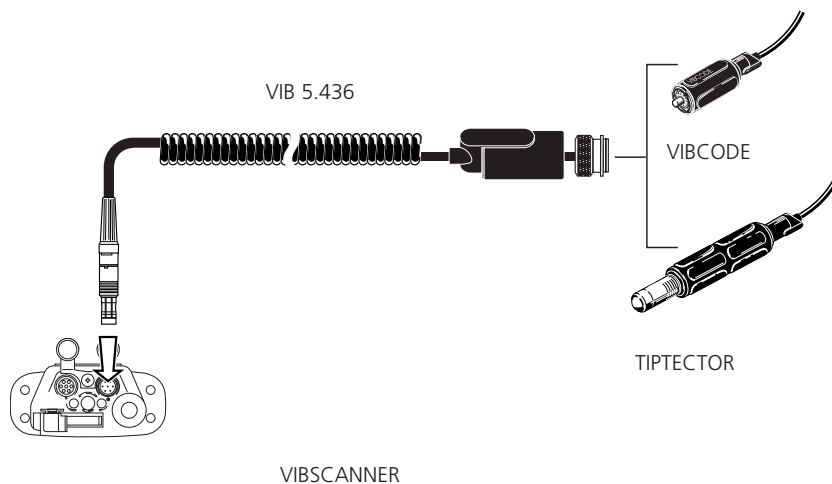
- VIBXPART II
- VIBXPART I
- VIBXPART EX
- VIBSCANNER
- VIBSCANNER EX

### 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 / TIPECTOR connected to VIBSCANNER

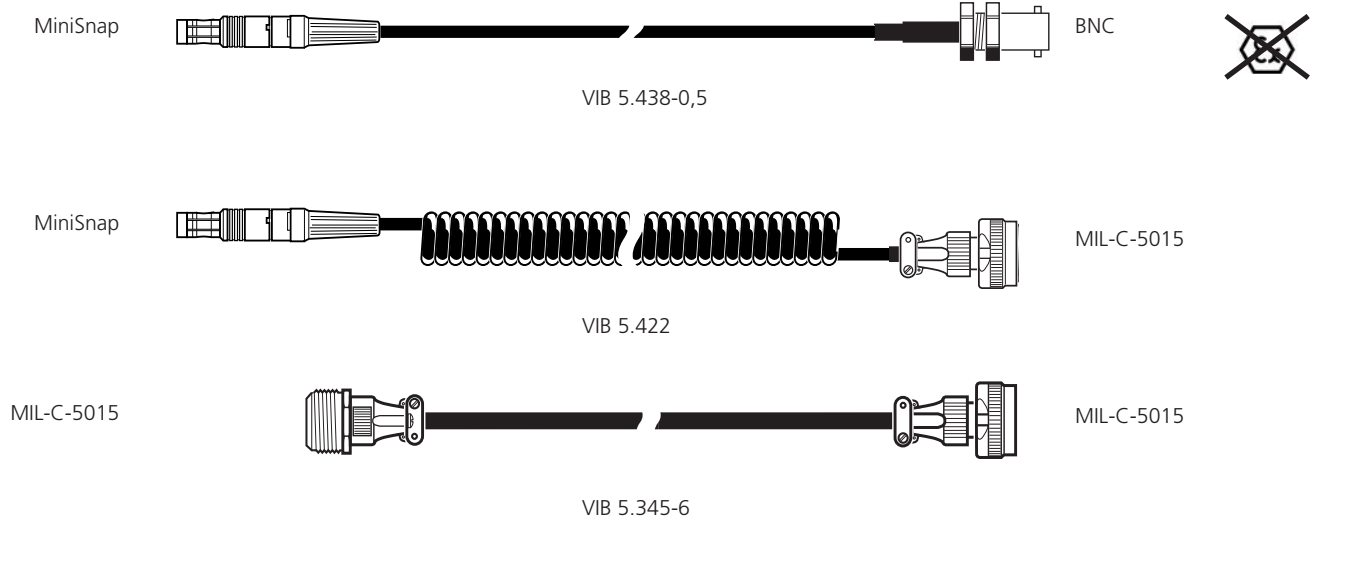


## Connection cables for ICP-type accelerometers

1

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

2



**Application**

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

**Cable lengths**

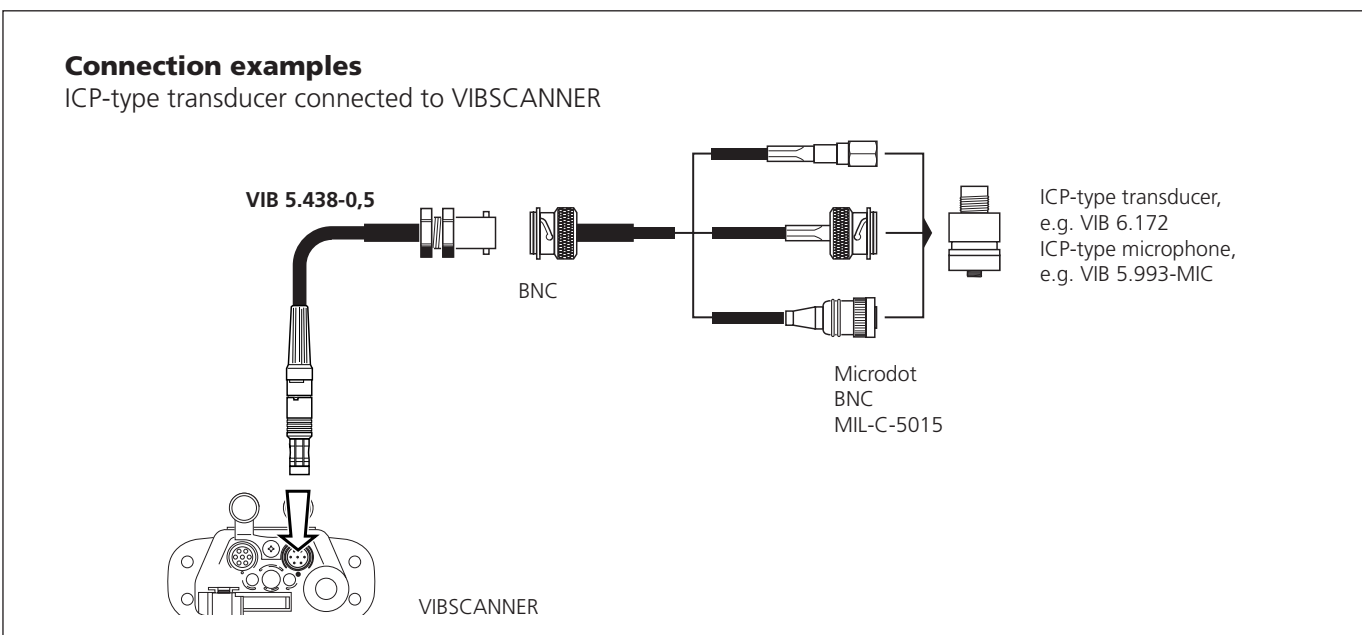
VIB 5.438-0,5	0.5 m
VIB 5.422	0.7 ... 1.8 m
VIB 5.345-6	6 m

**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.





## VIB 5.439 : Connection cable for Pt100 temperature probe

MiniSnap



BNC

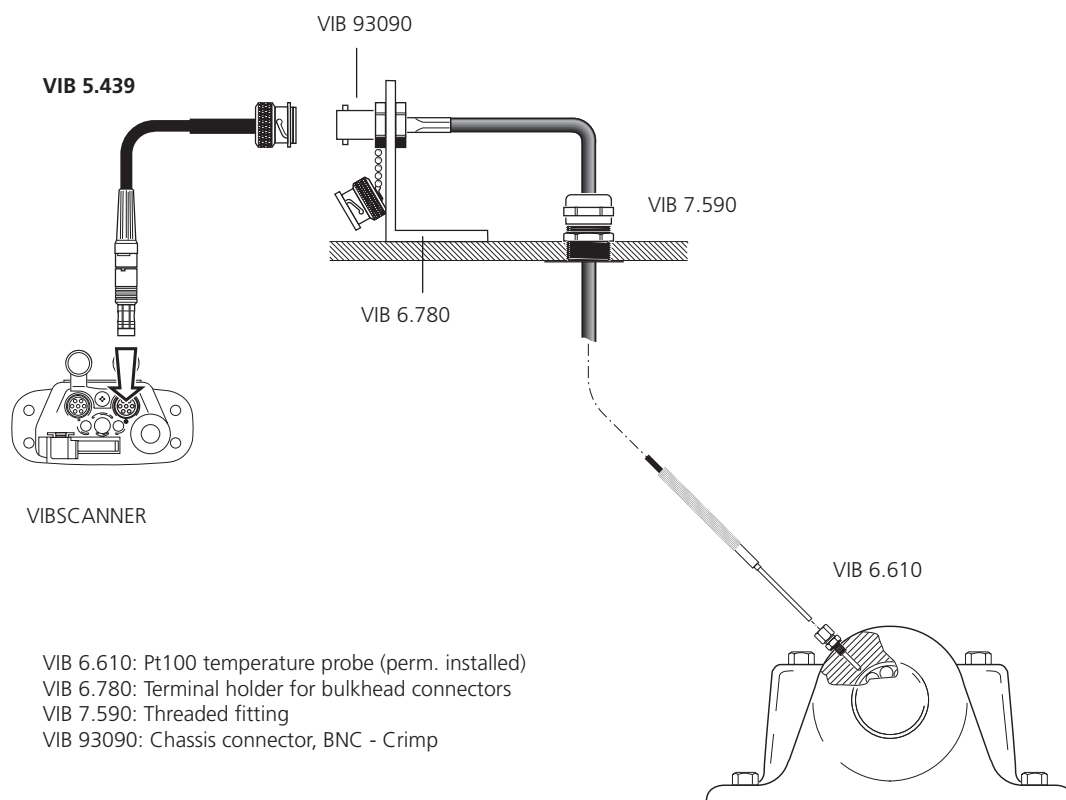
### Application

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

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2

MiniSnap



MiniSnap

**Application**

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

**Extendable sensor cables:**

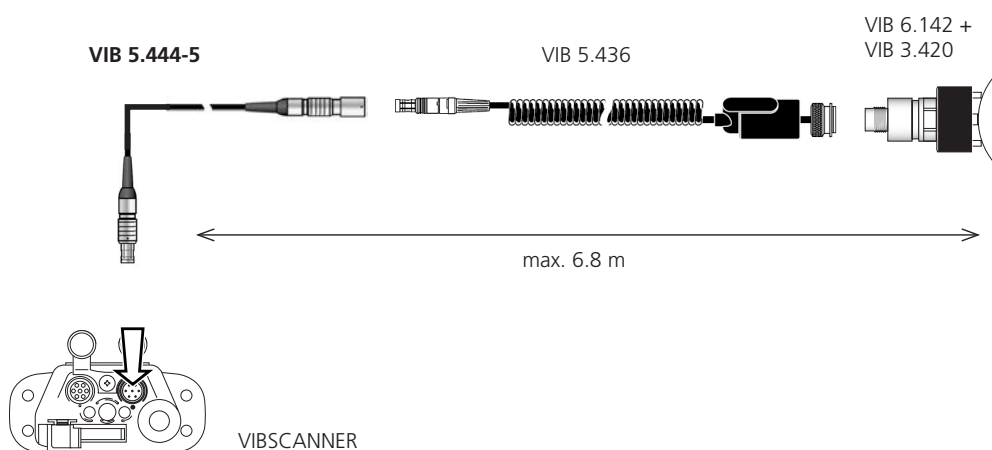
- VIB 5.436 Spiral cable for current line-drive transd.
- VIB 5.437-2,9 Straight cable, Current line-drive, 2.9 m
- VIB 5.437-5 Straight cable, Current line-drive, 5 m
- VIB 5.438-0,5 Straight cable, ICP-type, BNC connector
- VIB 5.422 Spiral cable, ICP-type, MIL connector

- 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

1

2



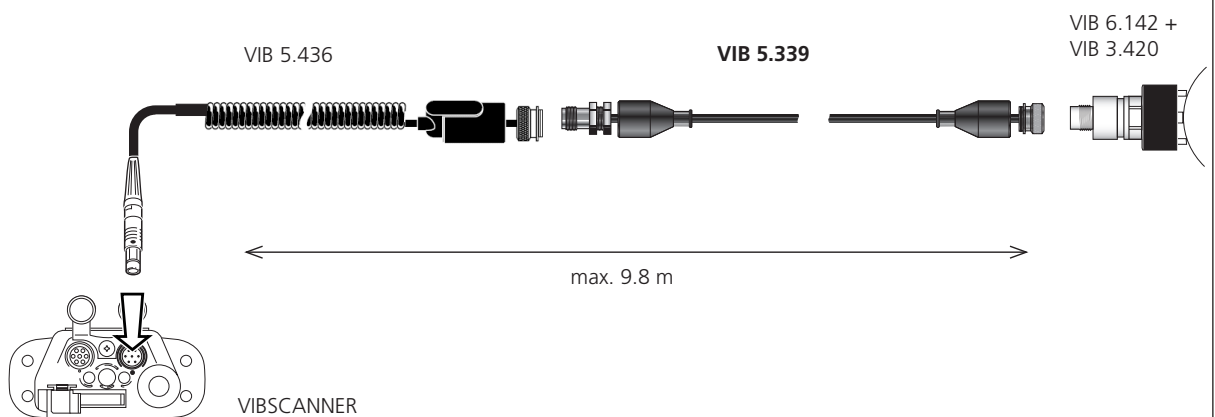
### Application

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

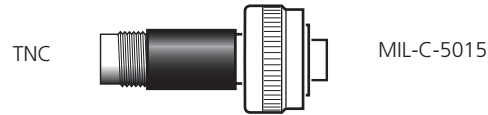
### Connection example



## VIB 5.449 : Connection adapter for VIB 6.195 accelerometer

1

2



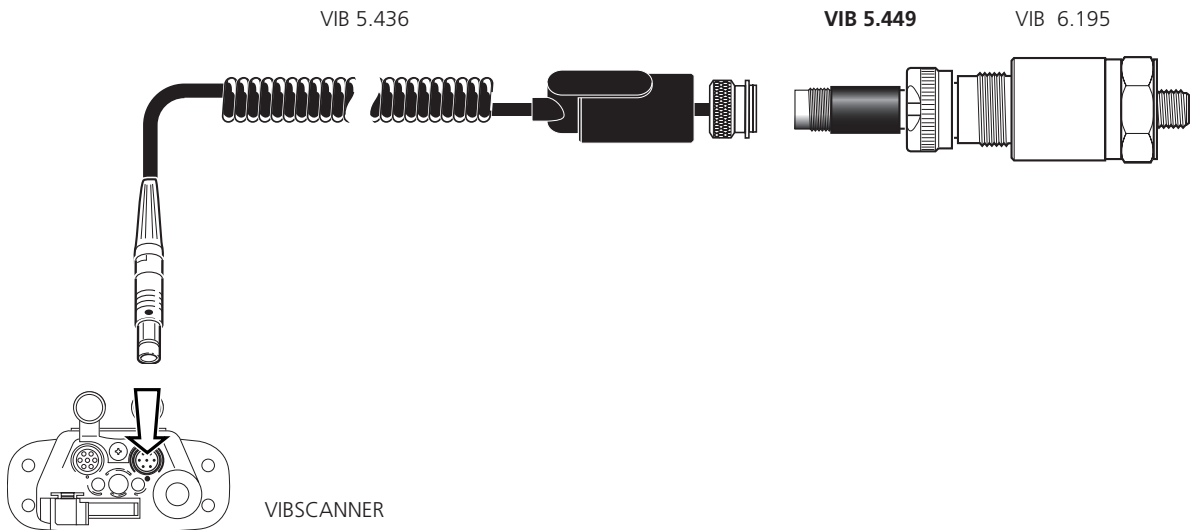
### Application

This adapter is used to connect the VIB 6.195 accelerometer to VIBSCANNER.

Connection: TNC socket / MIL-C-5015 plug  
Length: 6 cm

### Connection example

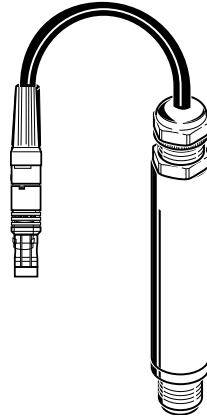
VIB 6.195 connected to VIBSCANNER



## VIB 8.746-VS: SPM adapter for VIBSCANNER

1

2



### Application

The SPM 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.

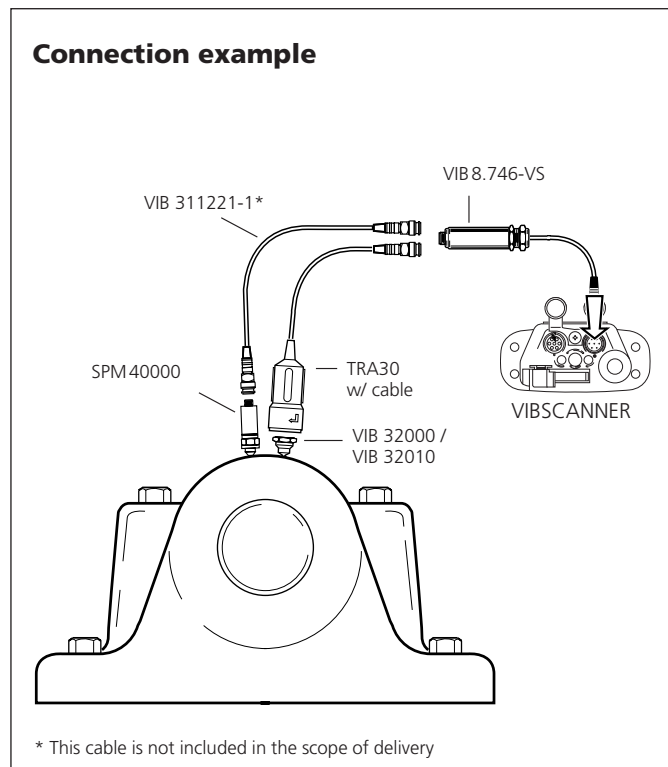
### Note

The SPM 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



**1**

2

# Chapter 2

## smartSCANNER





## smartSCANNER – Smart 3-in-1 solution for vibration analysis, balancing, shaft alignment

1

2



Vibration analysis



Balancing



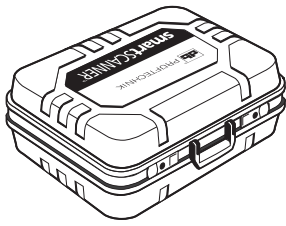
Shaft alignment

smartSCANNER is a versatile measurement system for machine service and maintenance. It combines the extensive measurement and analysis functions of the tried-and-tested VIBSCANNER data collector with the precision alignment options of the smartALIGN laser optical shaft alignment system.

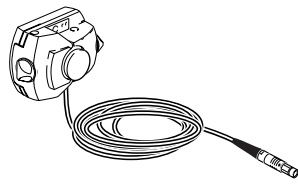
### smartSCANNER features

- Machine vibration analysis
- Roller bearing condition diagnosis
- Gear condition diagnosis
- Machine condition diagnosis
- Pump cavitation diagnosis
- RPM measurement
- Temperature measurement
- Process parameters acquisition
- Data collector capabilities
- Field balancing of rotors
- Alignment of horizontal machines
- Alignment of machine trains
- Alignment of vertical machines
- Soft foot correction

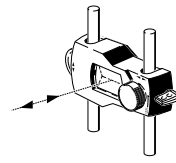
# SYS 7.460 :smartSCANNER Maintenance package



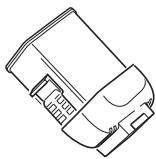
ALI 7.802



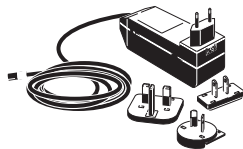
ALI 7.100



ALI 5.110



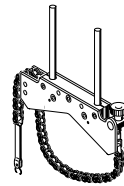
VIB 5.425



VIB 5.420-INT



VIB 8.970  
ALI 13.700CDS



ALI 2.892SET



VIB 5.448



VIB 5.430-2



VIB 9.638  
VIB 9.664  
VIB 9.669  
ALI 9.702  
ALI 9.703  
ALI 9.706



ALI 9.951



LIT 01.800



ALI 3.588



ALI 5.106



VIB 5.400



## Description

The 'Maintenance' package contains the basic components for data collection, machine diagnosis and shaft alignment with smartSCANNER.

## Scope of supply

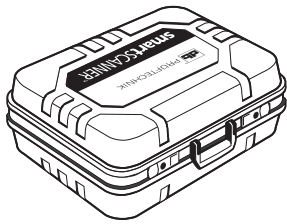
VIB 5.400	VIBSCANNER instrument (w/o battery)
VIB 5.420-INT	Battery charger
VIB 5.425	Rechargeable battery
VIB 5.430-2	PC cable, serial
VIB 5.448	Adapter cable, serial to USB
VIB 8.970	Condition Monitoring CD-ROM
VIB 9.638.G	VIBSCANNER operating instructions
VIB 9.664.G	VIBSCANNER operating instructions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

ALI 7.100	smartALIGN transducer, incl. dust cap and connection cable
ALI 5.110	Reflector, incl. dust cap
ALI 2.892 SET	Compact chain-type bracket
ALI 7.802	smartSCANNER case
ALI 5.106	Beam deflector
ALI 3.588	Tape measure, mm/inch
ALI 13.700CDS	Alignment Center CD set
ALI 9.702.G	smartALIGN handbook
ALI 9.703.G	smartALIGN pocket guide
ALI 9.706.G	Addendum for smartALIGN handbook
ALI 9.951.DG	smartALIGN product catalog
Not shown	
VIB 5.480	VIBSCANNER basic firmware
VIB 5.480-L	Basic firmware license
VIB 5.485-FM	VIBSCANNER firmware FFT
ALI 2.905	Lens cleaning cloth
ALI 7.744	Registration card for smart-SCANNER-Firmware 'Shaft Alignment'
ALI 7.590-323	smartSCANNER label

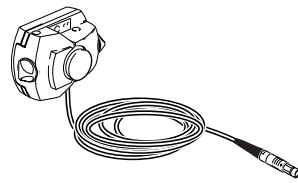
**SYS 7.464 :smartSCANNER Trending package**

1

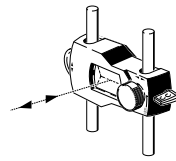
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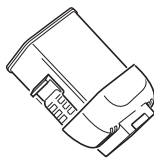
ALI 7.802



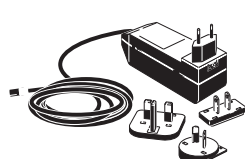
ALI 7.100



ALI 5.110



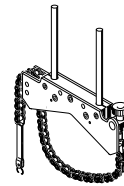
VIB 5.425



VIB 5.420-INT



VIB 8.955  
ALI 13.700CDS



ALI 2.892SET



VIB 5.448



VIB 5.430-2



VIB 9.638  
VIB 9.664  
VIB 9.669



VIB 9.631  
ALI 9.951



LIT 01.800



ALI 3.588



ALI 5.106



VIB 5.400



**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**

In order to administrate alignment data in OMNITREND, the OMNITREND device driver for smartALIGN/ smartSCANNER (VIB 8.975-DR) is required.

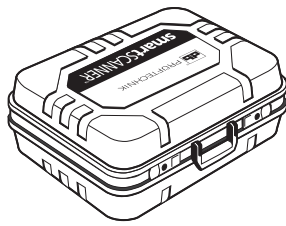
**Scope of supply**

- VIB 5.400 VIBSCANNER instrument (w/o battery)
- VIB 5.420-INT Battery charger
- VIB 5.425 Rechargeable battery
- 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 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,

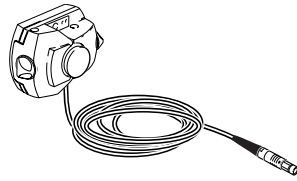
brochures, magazines

- ALI 7.100 smartALIGN transducer, incl. dust cap and connection cable
- ALI 5.110 Reflector, incl. dust cap
- ALI 2.892 SET Compact chain-type bracket
- ALI 7.802 smartSCANNER case
- ALI 5.106 Beam deflector
- ALI 3.588 Tape measure, mm/inch
- ALI 13.700CDS Alignment Center CD set
- ALI 9.702.G smartALIGN handbook
- ALI 9.703.G smartALIGN pocket guide
- ALI 9.706.G Addendum for smartALIGN handbook
- ALI 9.951.DG smartALIGN product catalog
- Not shown
- ALI 2.905 Lens cleaning cloth
- VIB 5.480 VIBSCANNER basic firmware
- VIB 5.480-L Basic firmware license
- VIB 5.480-P VIBSCANNER PC licence
- VIB 5.485-FM VIBSCANNER firmware FFT
- ALI 7.744 Registration card for smart-SCANNER-Firmware 'Shaft Alignment'
- ALI 7.590-323 smartSCANNER label

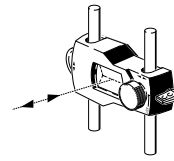
**SYS 7.466 :smartSCANNER VIBCODE package**



ALI 7.802



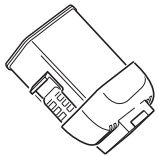
ALI 7.100



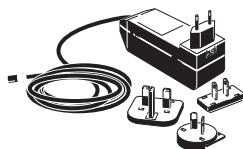
ALI 5.110



VIB 5.400



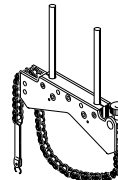
VIB 5.425



VIB 5.420-INT



VIB 8.955  
ALI 13.700CDS



ALI 2.892SET



VIB 5.448



VIB 5.430-2



VIB 9.638  
VIB 9.664  
VIB 9.669  
VIB 9.834



VIB 9.631  
ALI 9.951



LIT 01.800



ALI 3.588



ALI 5.106



VIB 8.660 VS

**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**

In order to administrate alignment data in OMNITREND, the OMNITREND device driver for smartALIGN/ smartSCANNER (VIB 8.975-DR) is required.

**Scope of supply**

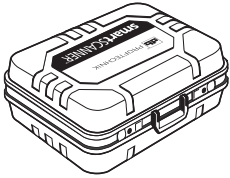
- VIB 5.400 VIBSCANNER instrument (w/o battery)
- VIB 5.420-INT Battery charger
- VIB 5.425 Rechargeable battery
- VIB 5.430-2 PC cable, serial
- VIB 5.448 Adapter cable, serial to USB
- VIB 8.660 VS VIBCODE transducer incl. cable
- VIB 8.955 OMNITREND for VIBSCANNER
- VIB 9.631.G OMNITREND, getting 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
- ALI 7.100 smartALIGN transducer, incl. dust cap and connection cable
- ALI 5.110 Reflector, incl. dust cap
- ALI 2.892 SET Compact chain-type bracket
- ALI 7.802 smartSCANNER case
- ALI 5.106 Beam deflector
- ALI 3.588 Tape measure, mm/inch
- ALI 13.700CDS Alignment Center CD set
- ALI 9.702.G smartALIGN handbook
- ALI 9.703.G smartALIGN pocket guide
- ALI 9.706.G Addendum for smartALIGN handbook
- ALI 9.951.DG smartALIGN product catalog
- Not shown
- ALI 2.905 Lens cleaning cloth
- VIB 5.480 VIBSCANNER basic firmware
- VIB 5.480-L Basic firmware license
- VIB 5.480-P VIBSCANNER PC licence
- VIB 5.485-FM VIBSCANNER firmware FFT
- ALI 7.744 Registration card for smart-SCANNER-Firmware 'Shaft Alignment'
- ALI 7.590-323 smartSCANNER label

**SYS 7.460-B1P : smartSCANNER balancing package with one measuring channel**

1

2



ALI7.802



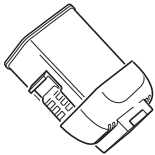
VIB 6.631



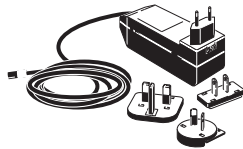
VIB 6.632



VIB 5.400



VIB 5.425



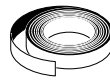
VIB 5.420-INT



VIB 6.147



VIB 3.420



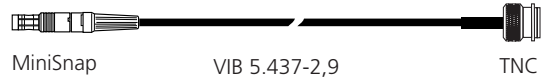
VIB 3.306



VIB 5.448



VIB 5.430-2



MiniSnap

VIB 5.437-2,9

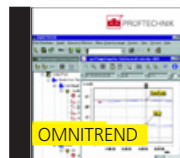
TNC



VIB 9.638  
VIB 9.664  
VIB 9.669  
ALI 9.702  
ALI 9.703  
ALI 9.706



VIB 9.631  
VIB 9.661-4  
ALI 9.951



VIB 8.970



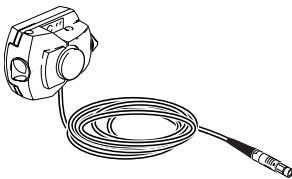
MiniSnap

VIB 5.432-2,9

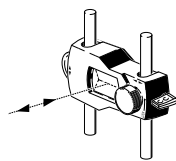
BINDER



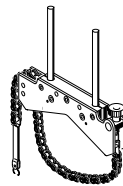
LIT 01.800



ALI7.100



ALI5.110



ALI2.892SET



ALI5.106



ALI3.588

continued on next page ->

SYS 7.460-B1P, continued

### Description

This package is used for 1-plane balancing and includes the required equipment for one measuring channel. smartSCANNER, 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 5.430-2	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-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

ALI 7.100	smartALIGN transducer, incl. dust cap and connection cable
ALI 5.110	Reflector, incl. dust cap
ALI 2.892 SET	Compact chain-type bracket
ALI 7.802	smartSCANNER case
ALI 5.106	Beam deflector
ALI 3.588	Tape measure, mm/inch
ALI 13.700CDS	Alignment Center CD set
ALI 9.702.G	smartALIGN handbook
ALI 9.703.G	smartALIGN pocket guide
ALI 9.706.G	Addendum for smartALIGN handbook
ALI 9.951.DG	smartALIGN product catalog
Not shown	
VIB 5.485-FM	VIBSCANNER firmware FFT
VIB 5.486-B	Password certificate 'Balancing'
ALI 2.905	Lens cleaning cloth
ALI 7.744	Registration card for smart-SCANNER-Firmware 'Shaft Alignment'
ALI 7.590-323	smartSCANNER label

### Accessory

VIB 5.480-UG	Firmware upgrade to 'Basic'
--------------	-----------------------------

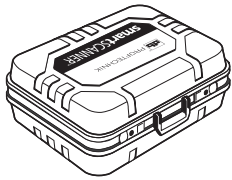
1

2

# SYS 7.460-B2P : smartSCANNER balancing package with two measuring channels

1

2



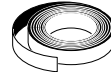
ALI7.802



VIB6.631



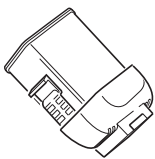
VIB6.632



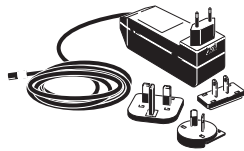
VIB3.306



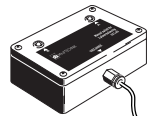
VIB5.400



VIB5.425



VIB5.420-INT



VIB5.446



VIB6.147



VIB3.420



VIB5.448



VIB5.430-2



MiniSnap

VIB5.436

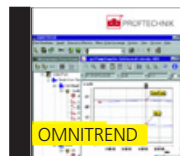
TNC



VIB9.638  
VIB9.664  
VIB9.669  
ALI9.702  
ALI9.703  
ALI9.706



VIB9.631  
VIB9.661-4  
ALI9.951



VIB8.970



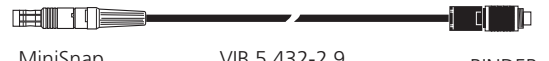
LIT01.800



MiniSnap

VIB5.437-2,9

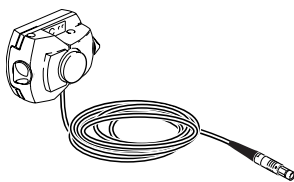
TNC



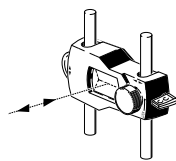
MiniSnap

VIB5.432-2,9

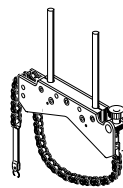
BINDER



ALI7.100



ALI5.110



ALI2.892SET



ALI5.106



ALI3.588

continued on next page ->



SYS 7.460-B2P, continued

### Description

This package is used for 2-plane balancing and includes the required equipment for two measuring channels. smartSCANNER, 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 5.430-2	PC cable, serial
VIB 5.432-2,9	Trigger cable, 2.9 m
VIB 5.436	Spiral cable for Current line-drive transducers
VIB 5.437-2,9	Cable for Current line-drive transducer, 2.9 m
VIB 5.446	Automatic switch for 2-plane balancing
VIB 5.448	Adapter cable, serial to USB
VIB 6.147	Accelerometer for low-speed machines, 2x
VIB 6.631	Laser Trigger Sensor
VIB 6.632	Trigger stand
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

ALI 7.100	smartALIGN transducer, incl. dust cap and connection cable
ALI 5.110	Reflector, incl. dust cap
ALI 2.892 SET	Compact chain-type bracket
ALI 7.802	smartSCANNER case
ALI 5.106	Beam deflector
ALI 3.588	Tape measure, mm/inch
ALI 13.700CDS	Alignment Center CD set
ALI 9.702.G	smartALIGN handbook
ALI 9.703.G	smartALIGN pocket guide
ALI 9.706.G	Addendum for smartALIGN handbook
ALI 9.951.DG	smartALIGN product catalog

Not shown

VIB 5.485-FM	VIBSCANNER firmware FFT
VIB 5.486-B	Password certificate 'Balancing'
ALI 2.905	Lens cleaning cloth
ALI 7.744	Registration card for smart-SCANNER-Firmware 'Shaft Alignment'
ALI 7.590-323	smartSCANNER label

### Accessory

VIB 5.480-UG	Firmware upgrade to 'Basic'
--------------	-----------------------------

1

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		VIB 9.638	10
		VIB 9.664	10
		VIB 9.669	10
		VIB 9.834.G	14



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eMail: info@pruftechnik.com



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**Productive maintenance technology**