

VIBSCANNER 2 Catalog

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VIBSCANNER 2 – Data acquisition ingeniously simple

VIBSCANNER 2 is the new PRÜFTECHNIK data collector for preventive machine condition monitoring. The handy device convinces with a simple intuitive operation and very short measuring times.



Applications

- Data acquisition with guided routine measurement tasks.

Features

- Intuitive operation
- Fast measurement and signal processing
- Comprehensive data acquisition for maximum status information
- Automatic identification of measurement location (RFID, VIBCODE)
- Shockproofed, waterproofed housing (IP65)
- Speed determination without tachometer
- Triaxial accelerometer

Ordering information

VIBSCANNER 2 is available in the following variants.

Item No.	Variant
VIB 5.210	VIBSCANNER 2, data collector
VIB 5.212	VIBSCANNER 2, Triaxial
VIB 5.214	VIBSCANNER 2, VIBCODE

The items delivered within the box are shown in the following overview.

Scope of supply

Item No.	Content		Variant		
	Description	Details	Data collector	Triaxial	VIBCODE
VIB 5.200	VIBSCANNER 2 instrument incl. battery	p. 8	✓	✓	✓
VIB 5.283-FM	VIBSCANNER 2 Firmware Data Collector		✓	✓	✓
VIB 2.581.G	VIBSCANNER 2 inspection certificate	---	✓	✓	✓
VIB 5.256	VIBSCANNER 2 pouch	p. 13	✓	✓	✓
VIB 5.228	VIBSCANNER 2 case	p. 12	✓	✓	✓
ALI 3.952	Micro USB cable		✓	✓	✓
ALI 50.651	Power supply / Charger	p. 5	✓	✓	✓
ALI 50.628-25	RFID transponder / tags - 25 pieces		✓	✓	✓
VIB 5.239	VIBSCANNER 2 safety release cable	p. 22	✓	✓	✓

Item No.	Content		Variant		
	Description	Details	Data collector	Triaxial	VIBCODE
LIT 52.100	VIBSCANNER 2 short instructions	---	✓	✓	✓
VIB 6.142 R	Mobile Industrial accelerometer, standard version,	p. 15	✓	✗	✗
VIB 3.420	Magnetic adapter for curved surfaces	p. 31	✓	✗	✗
VIB 5.236	Sensor cable for CLD-type accelerometer, TNC connector, spiralized	p. 22	✓	✗	✓
VIB 6.655	Triaxial accelerometer for mobile applications	p. 18	✗	✓	✗
VIB 6.657	Magnetic holder for Triaxial accelerometer VIB 6.655	p. 33	✗	✓	✗
VIB 5.237	Sensor cable for triaxial accelerometer, 4P Mini-MIL connector, spiralized	p. 22	✗	✓	✗
VIB 8.660	VIBCODE accelerometer without cable	p. 20	✗	✗	✓

Note: The items in the box for both variants are fixed.

Optional items may be ordered for either variant.:

Optional accessories

Item No.	Description- optional accessories	Notes	Details
OMNITREND Center PC software			
VIB 8.200	OMNITREND Center Client Server		p. 26
VIB 8.201/ 8.202	Floating user licences: 1 / 5		p. 26
VIB 8.203 / 8.204	Fix user licences: 1 / 5		p. 26
VIB 8.205	10 additional database licences		p. 26
VIB 8.206	Multi server licence		p. 26
VIB 8.210	OMNITREND Center single user		p. 26
Cabels and connection adapters			
VIB 5.222	Sensor cable for IEPE-type accelerometer, MIL connector, spiralized		p. 22
VIB 5.234	Sensor cable for measuring low voltage signals with VIBSCANNER 2, spiralized		p. 22
VIB 5.238	Sensor cable for IEPE-type accelerometer, BNC connector, spiralized		p. 22

TECHNICAL INFORMATION

Technical data

Parameter	VIBSCANNER 2
	Measuring channel, analog
Z channel (0 ... 50 kHz)	-20 .. +20 V, input impedance: 78 kOhm IEPE Linedrive
X/Y channel (0 ... 10 kHz)	-20 .. +20 V, input impedance: 78 kOhm IEPE
Dynamic range	109.5 dB (total)
Sampling rate	up to 131 kHz per channel
Signal processing	3 x 24 bit ADCs
Measuring range/ Accuracy	Vibration acceleration: dependent on used sensor Shock pulse: -10 dBsv to 80 dBsv +/- 2 dBsv
Fulfilled standard	DIN ISO 2954:2012 (2-1 kHz, 10 Hz -1 kHz, 10-10 KHz)
	Display
Type	Capacitive touchscreen Optically bonded for high contrast and increased shock resistance
Active area	95 x 54 mm (3 3/4" x 2 1/8")
Size	10.9 cm (4 1/3")
Color depth	16 million colors
Viewing angle	< 140°
Operation	Multi touch – gesture control Glove-compatible
Illumination	Background lighting, adjustable
Ambient light sensor	Yes
	Supply
Type	Li ion rechargeable battery
Rated voltage	7.2 V
Energy density	72 Wh
Charge time, typical	5.0 h (0 ... 100 % @ 25 °C / 77 °F) 3.5 h (0 ... 80 % @ 25 °C / 77 °F)
Charging temperature	10 °C ... 40 °C [50 °F ... 104 °F]
Operating time, typical	12 h (continuous operation, rechargeable battery 100 %) 6 h (continuous operation, rechargeable battery 50 %)
Power adapter	100-240 V~, 50-60 Hz (input) 12 V 3 A (output)
Energy saving mode	Yes
	Computer

Parameter	VIBSCANNER 2
Processor	ARM A9 - Quadcore 1 GHz
Operating elements	Touchscreen, ON/OFF key, Enter key
Memory	microSD card, 32 GB for measurement data, permanently installed 2 GB RAM
USB	1 x USB 2.0, device interface
RFID	RFID reader module for PRÜFTECHNIK transponder ALI 50.628-25 Complies with ISO 14443a and ISO 15693 Reading distance: 2...3 cm (13/16" ... 1 3/16")
WiFi	IEEE 802.11a/b/g/n/ac Throughput: < 200 Mbps Security: WPA2
Stroboscope	Frequency range: 0.1 – 1000 Hz Resolution: 0.06 1/min. LEDs: Risk group 1 per IEC 62471
LED	1x RGB LED (display for battery status and charging process)
	Environment / mechanical system
Connections	Socket for power adapter Micro USB for data cable Plug-in connector (8-pole) for signal cable
Housing	2-component housing: PC and ABS Sheath: TPE, black
Dimensions	203 x 143 x 76mm (LxWxH) (8 x 5 5/8 x 3")
Weight	approx. 1.0 kg (35.3 oz)
Degree of protection	IP65, dust-proof and spray water-protected
Temperature range	Operation: -10 °C ... +50 °C [14 °F ... 122°F] Storage: -20 °C ... +60 °C [-4 °F ... +140°F]
Air humidity	0 ... 90 %, non-condensing
Certifications	CE, RoHS, FCC, FCC/IC

Firmware features

Parameter	Standard firmware (VIB 5.283-FM)
Route	<ul style="list-style-type: none"> • Set of measurement tasks for machine condition monitoring and diagnosis. • Automatic identification of the measurement location using RFID transponder tags or VIBCODE sensor system. • Determining the rotational speed without tachometer via evaluation of the measured vibration signal. Verification of the speed value via integrated stroboscope.
Measuring parameters and signals	<ul style="list-style-type: none"> • Vibration acceleration, velocity, displacement • Shock pulse (bearing condition) • Amplitude Trending Spectrum for machine diagnosis • Envelope Trending Spectrum for bearing condition diagnosis and analysis of shock-excited vibration • Time waveform
Process parameters and visual inspection	<ul style="list-style-type: none"> • Low-voltage signal (AC/DC: ± 20 V) as user-defined measurement task • Manual input of reading values • Checklists for visual inspection tasks
Averaging	linear, exponential, peak-hold
Alarm bands	Monitoring of narrow band characteristic defect frequencies
FFT	<ul style="list-style-type: none"> • F_{\min}: between 0.5 Hz and 10 Hz programmable • F_{\max}: between 100 Hz and 51.2 kHz programmable • Lines: 400, 800, 1600, 3200, 6400, 12800, 25600, 51200, 102400 • Window: Rectangular, Hanning, Hamming, Flattop, Kaiser
SETUP & EVALUATION	
Units	ISO and US units, selectable
Comments	Given events with editable comments
OPERATION	
User interface	<ul style="list-style-type: none"> • Touchscreen with gesture control • User guidance via graphical interface with realistic machine images and display of the measurement location position. • Online help
Languages	German, English, French, Spanish,

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