

VIBXPERT® Ex

High performance intrinsically safe vibration analyzer



VIBXPERT® Ex

The new two channel FFT data collector and signal analyzer for hazardous areas

VIBXPERT® Ex is a high performance, intrinsically save, fully featured data collector, vibration analyzer and field balancer for easy condition monitoring and troubleshooting of rotating equipment in explosive environments such as petrochemical plants, refineries, offshore oil rigs, etc.

VIBXPERT® Ex collects field data including vibration information, bearing condition, inspection and process data and seamlessly integrates with the PRUFTECHNIK universal OMNITREND® software platform.

- ▶ 102,400 lines of resolution
- ▶ Simple joystick operation
- Acceptance measurements
- Runup / coastdown analysis
- ▶ Time waveform analysis
- ▶ Balancing, 1 plane or 2 planes
- Intrinsic safety II 2 G Ex ib IIC T4

Vibration trans	sducers (accessories)	
VIBCODE® – type VIB 8.66	0-XVS	
Hand-held transducer	reliable identification of the coded r	measurement location
with automatic location	reproducible measurement conditio	ns
identification	intrinsic safety: II 2 G Ex ib IIC T4	
Industrial accelerometer -	type VIB 6.142 DEX	
Mobile industrial	machine vibration & roller bearing c	ondition
accelerometer for	(shock pulse)	
standard machines	medium and high rotational speed (> 600 rpm)	
	magnetic, bonded or threaded mounting	
	Marking, gas explosion protection	
	Dust explosion	ⓑ II 2 D ExibD 21 T187℃
Industrial accelerometer -	type VIB 6.147 EX	
Mobile industrial	machine vibration	
accelerometer for	low rotational speed (> 120 rpm)	
'low-speed' machines	magnetic, bonded or threaded mounting	
ion speed machines	Marking, gas explosion protection	
	Dust explosion	

Frequency range Dynamic range Dynamic range Sampling frequency Analog, 1x Digital RP (1+1 Pulse/Tacho), 1x Or Output Stroboscope control Signal-Out Co sig Meas. range / Accuracy Vibration acceleration Shock pulse RPM 10 (th	oltage (AC/DC, ±30 V max.) purrent (AC/DC, ±30 mA max.) P-type accelerometer (2 mA, 24 V max.) purrent Linedrive (CLD) accelerometer (10 V, 10 mA max.) c 51.2 kHz (Acceleration from 0.5 Hz) d dB (measurement) / 136 dB (total) to 131 kHz per channel permocouple (type K) PM, Trigger, Keyphaser with pulse and AC signals: 0 V +26 V -26 V 0 V CL output connection for headphones to listen to the analog input signal; gnal processing (oscilloscope) expends on the transducer connected D80 dBsv / ± 3dBsv D 200 000 min-1 / ±0.1% or ± 1 min-1
Frequency range DC Dynamic range 96 Sampling frequency up Analog, 1x Th Digital RP (1+1 Pulse/Tacho), 1x or Output Stroboscope control TT Signal-Out Co sig Meas. range / Accuracy Vibration acceleration de Shock pulse -10 RPM 10	P-type accelerometer (2 mA, 24 V max.) arrent Linedrive (CLD) accelerometer (10 V, 10 mA max.) 5 51.2 kHz (Acceleration from 0.5 Hz) 6 dB (measurement) / 136 dB (total) 10 to 131 kHz per channel 11 termocouple (type K) 12 M, Trigger, Keyphaser with pulse and AC signals: 0 V +26 V 13 to 14 v 0 V 14 output 15 content of headphones to listen to the analog input signal; 16 gnal processing (oscilloscope) 17 epends on the transducer connected 18 content of the delay of the signal of
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Meas. range / Accuracy Vibration acceleration de Shock pulse -1C RPM 10 (th	epends on the transducer connected 080 dBsv /± 3dBsv
Vibration acceleration de Shock pulse -1C RPM 10	080 dBsv / ± 3dBsv
Shock pulse -10 RPM 10 (th	080 dBsv / ± 3dBsv
RPM 10 (th	
(th	200 000 min-1 / ±0.1‰ or ± 1 min-1
Tomporature type K 50	ne lower accuracy is applicable)
remperature type K -30	0 +1000°C / 1% or ±1°C (the lower accuracy is applicable)
Hardware	
Display LC	D, backlit, 1/2 VGA (480 x 320 pixel), 16 grey scales
Battery type Li I	Ion rechargeable battery pack (7.2V / 4.8Ah - 34 Wh)
Charging time < 5	5 hours in the device or external with optional charging station
Charging temperature 0°	C +50°C
Memory Int	ternal: 64 MB RAM;
Со	ompact Flash: 1 GB or 4 GB
Dimensions 25	60 x 220 x 37 mm (LxWxH)
Weight ap	prox. 2.3 kg
IP rating IP6	65, dust and splash-proofed
Temperature range -10	0°C +50°C (Operation)
-20	0°C +60°C (Storage)
Intrinsic safety 🐷	2 II 2 G Fx ib IIC T4

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PRÜFTECHNIK
Condition Monitoring GmbH
Oskar-Messter-Str. 19-21
85737 Ismaning, Germany
Tel.:+49 89 99616-0
Fax:+49 89 99616-300
info@pruftechnik.com
www.pruftechnik.com