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VIBXPERT® II

FFT Data Collector & Signal Analyzer



- Fast data acquisition
- Powerful diagnostic tools
- Easy to use
- Six international awards

Turn to PRÜFTECHNIK

for innovative and proven technology

Pushing limits for 40 years,
PRÜFTECHNIK presents VIBXPERT® II,
the latest vibration data collector and
signal analyzer based on sophisticated
and refined technology.

**A brilliant display yet long periods
of use – VIBXPERT® II makes it
possible.**

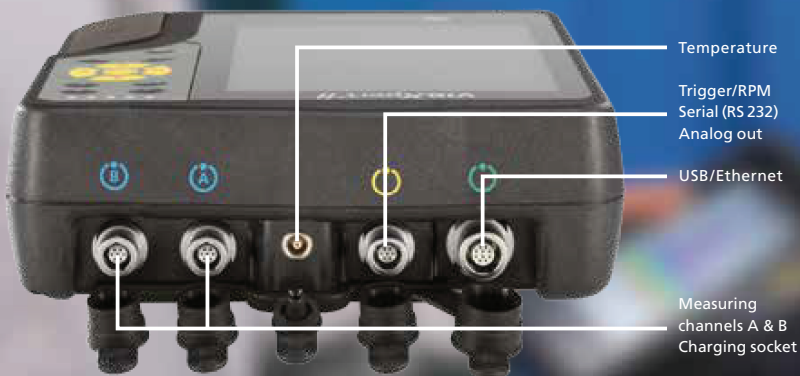
VIBXPERT® II combines the proven
features of its predecessor with the
advantages of rapid processors and
a brilliant energy-efficient color display.
It demonstrates that the use of
powerful components does not rule out
low power consumption.

VIBXPERT® II is ...

- ▶ **Intuitive** to operate on its graphical user interface with effective use of color.
- ▶ **Fast** thanks to optimized measuring workflows and advanced processor technology.
- ▶ **Ergonomic** with a handy design and brilliant color display.
- ▶ **Powerful** due to many practical analysis functions and measuring templates.
- ▶ **Long-lived** with a long battery life and a large data memory.

Interfaces for every environment

Five industrial interfaces, color-coded for
easy identification, connect to a wide
variety of different sensor types and data
links.

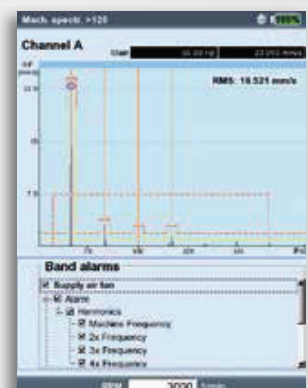


Meaningful icons offer guidance in
selecting the measurement task.

Shaft vibration analysis with orbit, static
shaft position and runout.

Narrow band and broadband monitoring of
characteristic frequencies in the spectrum.

Simple to use
with a wide range
of applications

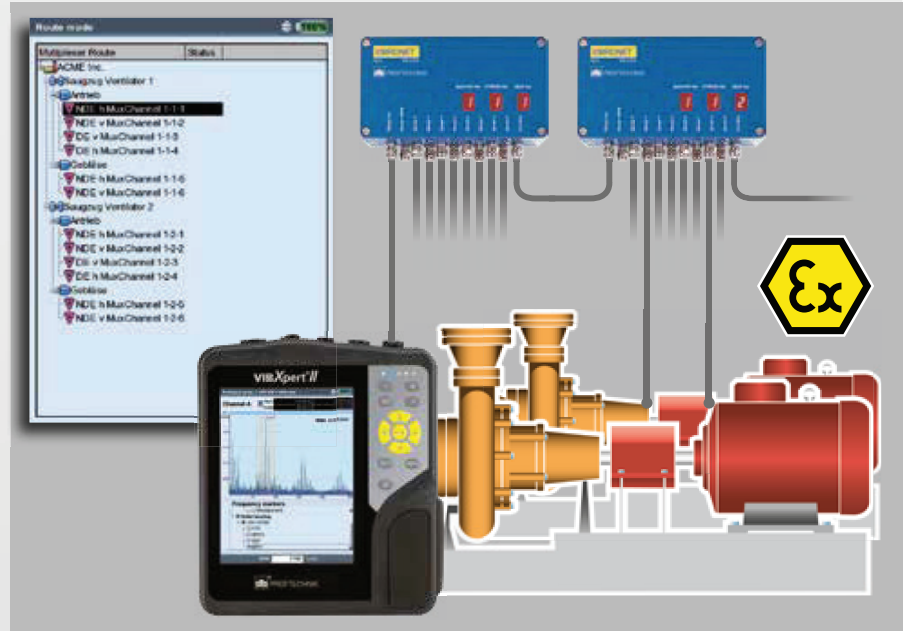


Special VIBXPERT® II features that simplify your work

Maximizing system availability – Optimizing production processes

Automatic Multiplexer Switch Box

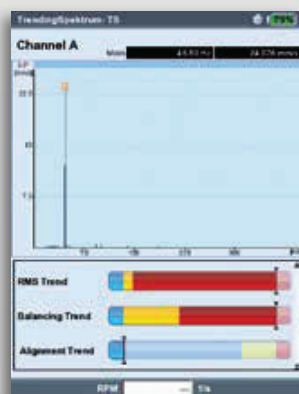
Make your VIBXPERT® II a mobile Online System by using the VIBRONET® Multiplexer as an automatic switch box for the instrument. One button press and up to 54 measurement locations can be recorded without any interaction. This is the perfect solution for fast and error free data collection at difficult to reach measurement locations. The Multiplexer solution is optionally also suitable for intrinsic safety areas.



One button press and multiple measurement locations can be recorded automatically with the Multiplexer – particularly practical when the locations are inaccessible.

Bar graph with three-color indicator

This simple diagnosis assistant will make your life easier: The three-color bar graph shows at a glance whether the machine is OK or if there is a problem. The example below shows a machine with an imbalance.



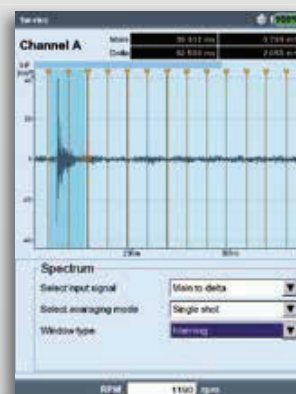
Automatic diagnoses simplify machine monitoring.

Advanced recording feature

Using VIBXPERT® II as a 'temporary' online system, various measurement tasks can be recorded such as overall values, spectrum, orbits, phase, time waveform, etc. Several trigger conditions are available to automatically start and stop recording of measurement.



Recording of overall velocity signals, RMS, 0-p and p-p.



Transient event recording with the possibility of FFT post processing.

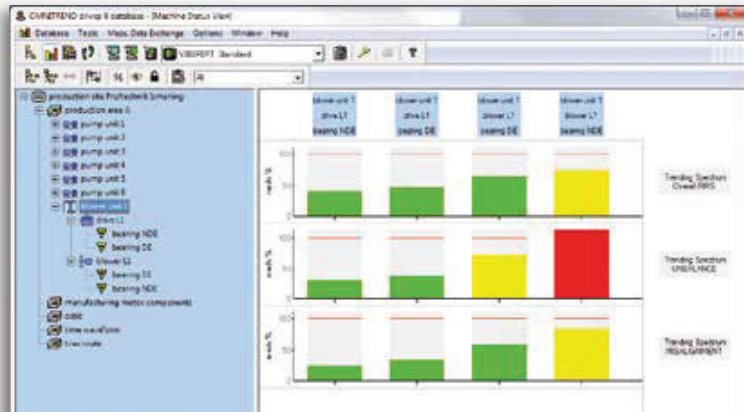
OMNITREND® – Condition Monitoring Software

Preparing, visualizing, archiving and exchanging data

Machine Status View

The three brilliant indicator colors of the machine status view keep you on top of the status of your machine park at all times. The display can be set to show absolute values or a percentage of the limit value.

A click on the bar graph opens the associated trend diagram that shows the rate at which damage, if any, has been developing.

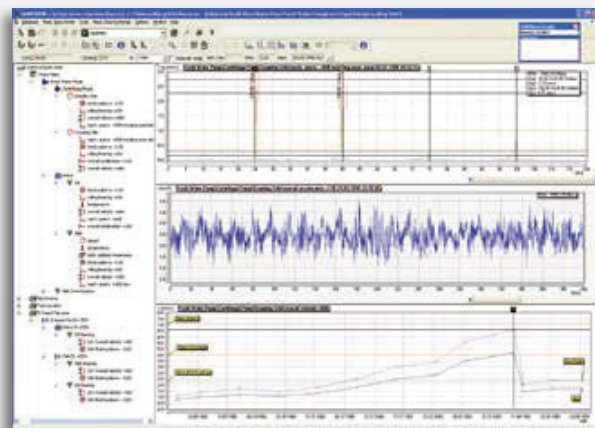


Machine status view – all machine signals at a glance.

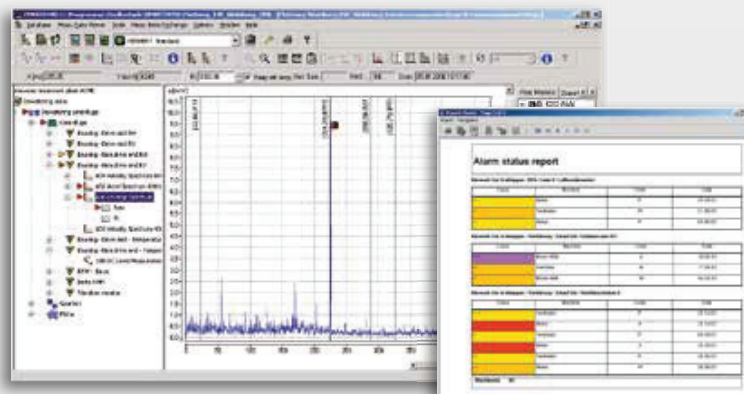
OMNITREND® software, multi-user or single-user

OMNITREND® manages machine data, programs measurement tasks and routes, and archives the results in a database (MS Access or MS SQL).

A wide range of evaluation and documentation functions are available. These are described more closely in the OMNITREND® brochure.



OMNITREND® supports the evaluation of collected machine data on a PC.



Fault diagnosis using frequency markers in the spectrum.

The report shows color-coded alarm classes.

Setting standards in vibration data collection

VIBXPERT® II: Fast – ergonomic – user-friendly



A waterfall spectrum visualizes changes in machine condition over time.

Status LEDs

- ▶ Traffic light display for the evaluation of results according to the ISO standard or user-defined alarm thresholds
- ▶ Device and battery status

Ergonomic keyboard

- ▶ One-thumb operation
- ▶ Illumination automatically adjusts to ambient light
- ▶ Non-slip grip

Brilliant color display

- ▶ 18-bit TFT LCD
- ▶ VGA (480 x 640 pixels)
- ▶ Non-reflective
- ▶ Automatic switch-off

Sturdy housing

- ▶ Light and compact
- ▶ Protection class IP 65

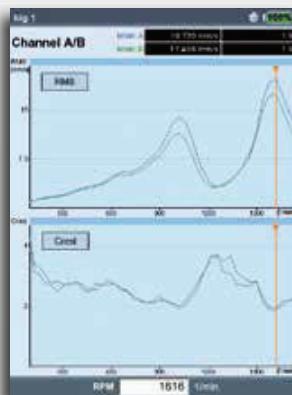
Large data memory

- ▶ 2 GB CompactFlash card

Powerful Li-Ion battery

- ▶ 8-hour operating life
- ▶ Exchangeable

One- or two-channel coast-down test with RMS, amplitude or waterfall.



Field balancing in two planes. A 'smiley' appears when the balancing grade is reached.



Route-based data collection with a clear display of measuring locations.



VIBXPERT® II at a glance

Don't miss out on these great features

Versatile

- ▶ Route-based data collection
- ▶ Vibration diagnosis
- ▶ One- or two-plane field balancing (optional)
- ▶ Acceptance measurement with machine templates (optional)
- ▶ Troubleshooting
- ▶ Multimeter
- ▶ Data logging
- ▶ Visual inspection
- ▶ Print reports on USB stick
- ▶ EX version (optional)



Analysis in detail

- ▶ Characteristic overall values & process parameters
- ▶ Time waveform
- ▶ Amplitude/envelope spectrum
- ▶ Cepstrum
- ▶ Phase, cross-channel phase
- ▶ Orbit
- ▶ Static shaft position
- ▶ Runout analysis (shaft vibration)
- ▶ Bump test
- ▶ Coast-down/run-up test
- ▶ Order analysis
- ▶ Modal analysis
- ▶ Operating Deflection Shape Analysis (ODS)
- ▶ Transient capture

Advanced
Package
Only

- ▶ Long-term recording (optional)
- ▶ Characteristic frequency markers
- ▶ Signal post-processing
- ▶ ISO standards for evaluation

Valuable additional features

- ▶ Handles multiple measurement points automatically (Multiplexer switch box)
- ▶ Printing of measurement reports
- ▶ Rugged hard case
- ▶ Extensive accessories
- ▶ Optional measuring functions enabled by a password

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A member of the PRÜFTECHNIK group

BALANCING WEIGHTS & ACCESSORIES



Carrying Case CC-110

COMPLETE KITS & STARTER KITS

Starter Kits include

Squirrel Cage Clips (300 pieces), Steel C-Clamps (28 pieces)
Airfoil Clips (60 pieces), Glass Bead Reflective Tape, Carrying Case

Part No. SK-110: \$640.00

Part No. SK-500: \$690.00

Complete Kits include

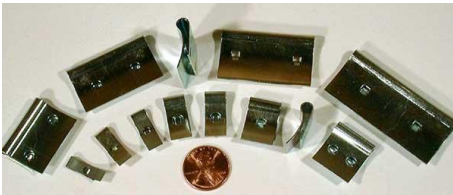
Same as Starter Kit plus Backward Incline Clips (205 pieces)

Part No. PRO-110: \$820.00

Part No. PRO-500: \$870.00



Carrying Case CC-500



SQUIRREL CAGE CLIPS

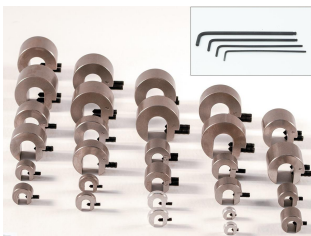
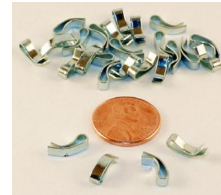
The standard Squirrel Cage Clips have a slight curve and are designed for balancing fans with a curved blade.

Squirrel Cage Clips sold in packs of 25 or 100, or as a complete set (Part No. FSBC-100).

EXTRA TIGHT CURVE CLIPS

These clips have been designed with a tighter radius to fit securely on a smaller squirrel cage fan. These are available in three different weights and two finishes for more flexibility and design for your finished product.

Extra Tight Curve Clips sold in packs of 25 or 100.



C-CLAMP WEIGHTS

The C-Clamps can be used as trial weights or permanent correction weights on vane axial flow fans and squirrel cage fans. The clamps have a serrated surface opposite the set screws to further secure the balancing weight. They are available in aluminum, steel, stainless steel and double-sided.

C-Clamp weights sold individually, or as a complete set (Part No. SC-KIT).



BACKWARD INCLINE CLIPS

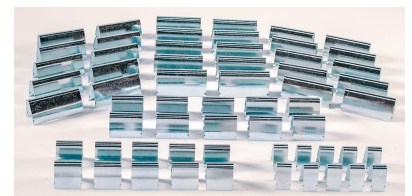
The Backward Incline Clips are flat in shape and are designed for balancing flat bladed fans such as most backward incline fans. Available in extra wide and stainless steel as well.

Backward Incline Clips sold in packs of 25 or 100, or as a complete set (Part No. FSRIC-100).

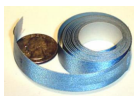
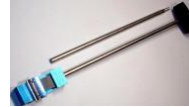

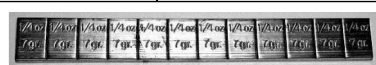

AIRFOIL CLIPS

Air foil clips are used on blowers manufactured by companies such as Trane, Carrier, Twin City, New York and Chicago Blower. They have a 3/4" opening or throat size. The average depth of the clips is 1.1 inch. These clips are available in a Standard throat size of 3/4" or as Extra Wide with a throat size of 1.2" or as Narrow with a throat size of 0.54". We also offer Teflon coated clips for added chemical resistance.

Airfoil clips sold in packs of 10, or as a complete set (Part No. AFC-KIT).



To request and order form, please call or email (info in header above) or use this link: <http://www.ctrline.net/request-information.html>

Squirrel Cage Clips									
Wt. (grams)	Part No.	\$ (25 Pack)	Part No.	\$ (100 Pack)	Wt. (grams)	Part No.	\$ (25 Pack)	Part No.	\$ (100 Pack)
0.2	1BC-0.2	14.00	2BC-0.2	37.00	2.4	1BC-2.4	17.00	2BC-2.4	41.00
0.4	1BC-0.4	14.00	2BC-0.4	37.00	3.3	1BC-3.3	17.00	2BC-3.3	41.00
0.6	1BC-0.6	16.00	2BC-0.6	39.00	4.9	1BC-4.9	20.00	2BC-4.9	45.00
0.8	1BC-0.8	16.00	2BC-0.8	39.00	6.5	1BC-6.5	22.00	2BC-6.5	51.00
1.0	1BC-1.0	16.00	2BC-1.0	39.00	9.8	1BC-9.8	25.00	2BC-9.8	66.00
1.6	1BC-1.6	16.00	2BC-1.6	39.00	13.0	1BC-13.0	27.00	2BC-13.0	69.00
Part No. FSBC-100: Complete Set of Squirrel Cage Clips: 1,200 pieces (100 ea. 0.2 to 13.0 grams) \$435.00									
Standard Extra Tight Curve Clips					Black Extra Tight Curve Clips				
Wt. (grams)	Part No.	\$ (25 Pack)	Part No.	\$ (100 Pack)	Wt. (grams)	Part No.	\$ (25 Pack)	Part No.	\$ (100 Pack)
0.17	1BCC-0.17	14.00	2BCC-0.17	39.00	0.17	1BCCB-0.17	14.00	2BCCB-0.17	39.00
0.28	1BCC-0.28	14.00	2BCC-0.28	39.00	0.28	1BCCB-0.28	14.00	2BCCB-0.28	39.00
0.34	1BCC-0.34	14.00	2BCC-0.34	39.00	0.34	1BCCB-0.34	14.00	2BCCB-0.34	39.00
Backward Incline Clips									
Wt. (grams)	Part No.	\$ (25 Pack)	Part No.	\$ (100 Pack)	Wt. (grams)	Part No.	\$ (25 Pack)	Part No.	\$ (100 Pack)
0.05	1RIC-0.05	16.00	2RIC-0.05	39.00	3.6	1RIC-3.6	17.00	2RIC-3.6	45.00
0.1	1RIC-0.1	14.00	2RIC-0.1	37.00	5.0	1RIC-5.0	20.00	2RIC-5.0	48.00
0.25	1RIC-0.25	14.00	2RIC-0.25	37.00	7.0	1RIC-7.0	22.00	2RIC-7.0	50.00
0.5	1RIC-0.5	16.00	2RIC-0.5	39.00	14.0	1RIC-14.0	27.00	2RIC-14.0	69.00
0.8	1RIC-0.8	16.00	2RIC-0.8	39.00	28.0	1RIC-28.0	46.00	2RIC-28.0	112.00
1.0	1RIC-1.0	16.00	2RIC-1.0	39.00	42.0	1RIC-42.0	65.00	2RIC-42.0	161.00
1.8	1RIC-1.8	16.00	2RIC-1.8	39.00	56.0	1RIC-56.0	83.00	2RIC-56.0	198.00
Part No. FSRIC-100: Complete Set of Backward Incline Clips: 1,100 pieces (100 ea. 0.5 to 56.0 grams) \$745.00									
Standard Airfoil Clips		Teflon Coated Airfoil Clips		Extra Wide Airfoil Clips		Extra Wide Teflon Coated		Carrying Cases	
Wt. (ounces)	Part No.	\$ (10 Pack)	Part No.	\$ (10 Pack)	Part No.	\$ (10 Pack)	Part No.	\$ (10 Pack)	
0.125	AFC-0.125	18.00	TAFC-0.125	24.00					Part No.
0.25	AFC-0.25	18.00	TAFC-0.25	24.00	XW AFC-0.25	23.00	TXW AFC-0.25	33.00	CC-110
0.5	AFC-0.5	20.00	TAFC-0.5	26.00	XW AFC-0.5	25.00	TXW AFC-0.5	34.00	\$ 55.00 ea.
1.0	AFC-1.0	30.00	TAFC-1.0	37.00	XW AFC-1.0	33.00	TXW AFC-1.0	41.00	Part No.
1.5	AFC-1.5	37.00	TAFC-1.5	45.00					CC-500
2.0	AFC-2.0	40.00	TAFC-2.0	51.00					\$ 130.00 ea.
Part No. AFC-KIT: Complete Set of Standard Airfoil Clips: 60 pieces. (10 each of 0.125 to 2.0 ounces) \$145.00									
Narrow Airfoil Clips			Reflective Tape		Balancing Clip Installation and Removal Tools				
Wt. (ounces)	Part No.	\$ (10 Pack)	Part No.	\$ (Each)	Part No.	\$ (Each)	Part No.	\$ (Each)	
0.125	NAFC-0.125	21.00	GBRT	22.00	BCIT	65.00	BCIT-SHORT	55.00	
0.25	NAFC-0.25	23.00		Glass bead reflective tape, ½" wide by 5' long		The tool head has a larger magnet that holds the weight in place. An extended handle enables access into tight areas.		For the BC-0.2 clips to the BC-2.4 and the RIC-0.1 up to the RIC-3.6.	
0.5	NAFC-0.5	25.00							
1.0	NAFC-1.0	31.00							
1.5	NAFC-1.5	40.00							
2.0	NAFC-2.0	43.00							
Steel C-Clamps			Stainless Steel C-Clamps		Double Sided Steel C-Clamps		Adhesive Backed Weights		
Wt. (ounces)	Part No.	\$ (Each)	Part No.	\$ (Each)	Part No.	\$ (Each)	Part No.	\$ (Each)	Description
0.04	AC-0.04	9.00					AW-60	11.00	4x10g, 4x5g blocks (60g total)
0.1	AC-0.1	9.00					AW-84	11.00	12x7g blocks (84g total)
0.125			STSC-0.125	18.00			AW-84T	11.00	12x7g THIN blocks (84g total)
0.25	SC-0.25	10.00	STSC-0.25	18.00			AW-112	11.00	8x14g blocks (112g total)
0.5	SC-0.5	10.00	STSC-0.5	18.00					
0.75	SC-0.75	10.00	STSC-0.75	18.00					
1.0	SC-1.0	10.00	STSC-1.0	18.00					
1.5	SC-1.5	10.00	STSC-1.5	18.00					
2.0	SC-2.0	11.00	STSC-2.0	20.00	DSSSC-2.0	14.00	Part No.	\$ (Each)	Description
3.0	SC-3.0	11.00	STSC-3.0	20.00	DSSSC-3.0	14.00	PP-501	135.00	 Weighs up to 500 g in 0.1 g increments. Scale measures 4.5" X 3" X 1". Two modes (grams and ounces), tare and memory functions. Backlit display with auto shutoff. 2 X AAA batteries included.
4.0	SC-4.0	11.00	STSC-4.0	20.00	DSSSC-4.0	14.00			
5.0	SC-5.0	11.00	STSC-5.0	22.00	DSSSC-5.0	15.00			
6.0	SC-6.0	11.00	STSC-6.0	22.00	DSSSC-6.0	15.00			
7.0	SC-7.0	11.00			DSSSC-7.0	15.00			
8.0	SC-8.0	11.00	STSC-8.0	22.00	DSSSC-8.0	15.00			
Part No. SC-KIT: Complete Set of Steel C-Clamps: 28 pieces (2 each of 0.04 to 8.0 ounces) \$250.00									