IBIS

Vibration Monitoring - Balancing - Condition Monitoring

SiViB Record *Box*

Measuring box for:

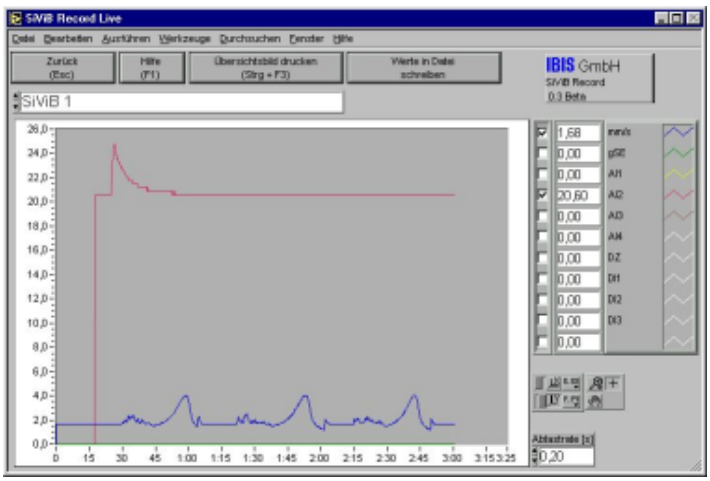
- Vibration
- Bearing condition
- Machine RPM

Easy to use measurement box for service and commissioning to be used with a notebook PC

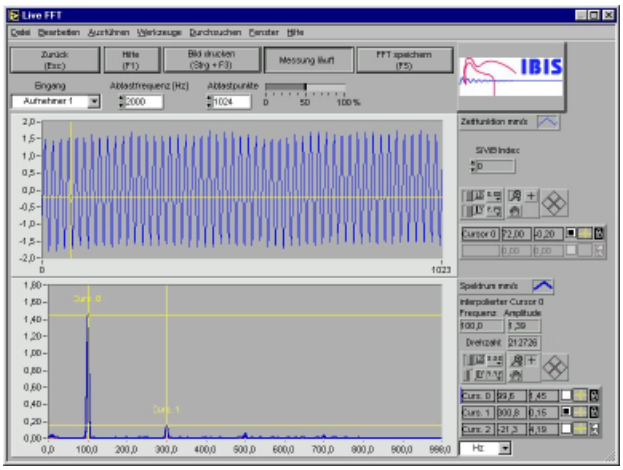
„Stand alone“ monitoring for troubleshooting of occasional problems

Low cost FFT-analyzer when used with Record Control Pro software

SiViB Record *Box* is a cost effective, but powerful measurement unit for vibration velocity, roller bearing condition and machine RPM. The box has a robust aluminum housing and work as interface between accelerometers and a PC. Visualization and archiving the measured values is done using the Record Control software on a standard Windows PC. The measurement box can be used for virtually all vibration measurement tasks on rotating machines like electric motors, fans, pumps, gearboxes, test benches and machine tools. Particularly advantageous is the use where measurements shall be taken and recorded over a period of time. It allows simultaneous measurement of overall vibration and machine RPM during run up or coast down for easy identification of resonant conditions.



Live-graph versus time.
Very well suited for observing change in vibration.



Time waveform and frequency spectrum (FFT) for identifying root causes of abnormal vibration (only with Record Control Pro).

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SiViB Record box is available in different configurations:

	SiViB Record *Box* 1602	SiViB Record *Box* 1603	SiViB Record *Box* 1632 WS
Vibration measurement channels [mm/s]	**2**	**3**	**1**
Roller bearing condition channels [gSE]	**2**	**3**	**1**
Relative shaft vibration	**-**	**-**	**2**
Relative shaft position	**-**	**-**	**2**
Machine RPM channel	**1**	**1**	**1**

Specification

Units of measurement:	Vibration velocity v_{RMS} [mm/s] and Bearing condition gSE or relative shaft vibration displacement [µm] and shaft position [µm] Machine RPM (derived from laser pickup or inductive probe with 1 pulse per revolution	
Housing:	Compact Aluminium box	
Inputs / Outputs:	BNC-sockets as inputs for accelerometers with IEPE supply, sensitivity 10 or 100 mV/g Eddy current pickups with 8 mV/µm sensitivity Combicon-screw terminal, 4-pin for RPM pulse 12 to 28 Volt USB (mini) to the PC CAN-Bus connector for networking multiple boxes to one PC. Low voltage socket 5,5 / 2,5 mm for 24 Volt DC supply	
Connection to PC:	USB (mini)	
Supply	24 Volt DC via included mains adapter	
Measurement ranges:	Vibration:	0,1 - 10 / 20 / 40 / 80 mm/s v_{RMS} 100, 200, 400, 800 µm s_{pk}
	Bearing condition:	0,1 - 10 / 20 / 40 / 80 gSE
	RPM:	0 – 120 000 min^{-1} (1 pulse per rev)

What's included:
SiViB Record *Box*, mains power supply, USB cable A to mini, Software Record Control Light, manual on CD

Recommended accessories:

Article	Order Number
Accelerometer 100 mV/g with cable 1,5 m and magnet	AM100.012.015
Accelerometer 10 mV/g with cable 1,5 m and magnet	AM010.012.015
Laser-Set for RPM measurement includes laser sensor, magnetic holder, cable, reflex tape	SIV09.050
Eddy current sensor WSG 69-5; range +/- 800 µm	964.10.025
Oscillator for WSG 69-5	931.10.011
Housing for oscillator with BNC-Socket	
Software Record Control Pro with extended functions	SiV09.031

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