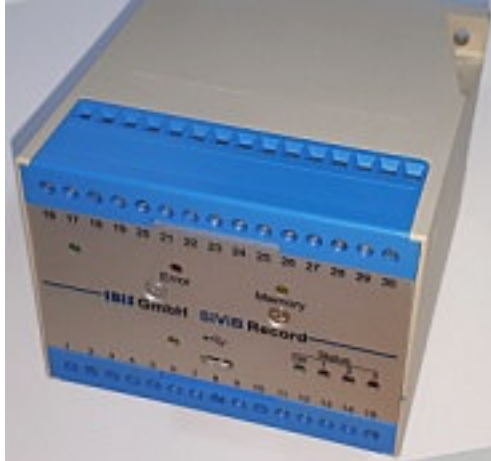


## SiViB Record 1500 STM



### Machine Condition Monitor for Vibration, Roller Bearing Condition, Speed, Temperature and Process Parameters

- Stores measurement values in internal memory for minimum 2048 data sets including time stamp
- 3 alarm outputs, configurable by use of free configuration software
- Input for machine status information for selection between two different sets of alarm setpoints (e.g. idle / load)

#### Description:

SiViB Record 1500 is a compact unit for complete machine condition monitoring. The most important condition indicators vibration, speed, temperature, and other process parameters are handled in only one monitor. Minimum 2048 data sets for all inputs and time stamp may be stored either in time intervals or based on trigger events like alarm conditions. The compact size and easy installation make SiViB ideal for use on motors, pumps, fans etc. An input for selection between two different alarm sets allows the implementation on non continuously running machines, such as machine tools.

#### Functions:

Using the free configuration software, the ranges and alarm levels can be set easily and transferred from a PC to SiViB via the USB link using a USB micro cable. The configuration software runs under Windows 7, 8.1 and 10.

During the operation of the machine, vibration is being monitored. When the vibration supercedes one of the alarm setpoints, the corresponding output will switch to alarm.

If senseful, an input controlling the active set of alarm setpoints can be used. The machine control system can provide the information if the machine is in idle or working under load. Different alarm settings might be senseful and can therefore be applied using this feature.

The alarm outputs are optically isolated transistors, allowing an easy interfacing to a PLC System. LED's on the front panel indicate the alarm status.

The measurement values can be stored in an internal memory either in selected intervals or on trigger events, such as alarm conditions. The memory can hold a minimum 2048 data sets, each consisting of all input levels and a time stamp. The data can be transferred to a PC using the USB. The software SiViB Record Control unloads the data from the instrument into the PC and stores to data files. A graphical trend display window in the software makes it easy to identify deterioration of machine condition.

The optionnally available software package SiViB Record Control Pro adds features like frequency spectras and run up / coast down for further diagnosis and troubleshooting more complex machinery problems. Using this advanced software saves you the costs for an additional vibration analyser.

## Specifications

Units of Measurement:	1 - 3 x vibration velocity $v_{eff}$ and roller bearing condition gSE 4 or 2 x process parameters or temperature (PT1000, KTY 84), (only 1- and 2-channel versions) 3 x digital inputs 24 VDC 1 x machine speed (1 pulse per rev)
Case:	Plastic case IP20 for 35 mm DIN rail or base plate mounting Dimensions 100 x 75 x 110 mm (WxHxD);
Inputs / Outputs:	30 screw terminals: 1 - 3 inputs for accelerometers; ICP supply sensitivity 10, 100 or 500 mV/g 4 or 2 inputs for DC Volts (0 – 10 Volts) or temperature (PT1000, KTY 84) (only 1- and 2- channel versions) 1 input for machine status / parameter set (opto coupler) 1 input for trigger signal store dataset 3 digital inputs 24 VDC (opto coupler) 2, 4, or 6 analogue outputs 0-10 VDC  3 Alarm outputs (opto coupler)
USB interface:	USB micro for -Cable to PC for configuration and download
Power supply:	24 VDC; approx. 250 mA
Ranges:	vibration: 0,1 - 10 / 20 / 40 / 80 mm/s $v_{eff}$ bearing condition: 0,1 - 10 / 20 / 40 / 80 gSE process variables: 0 – 10 VDC temperature: 0 – 200 degrees Celsius speed: 0 – 60 000 $min^{-1}$ (1 pulse per rev)

## Types and part numbers:

Unit	Description	Order Number
SiViB Record 1501 STM	1 input for accelerometer, 4 inputs for temperature or 0 – 10 VDC	SiV02.011
SiViB Record 1501 STM HP 50	1 input for accelerometer, Highpass 50 Hz 4 inputs for temperature or 0 – 10 VDC	SiV03.011
SiViB Record 1502 STM	2 input for accelerometer, 2 inputs for temperature or 0 – 10 VDC	SiV02.012
SiViB Record 1511 STM	1 input for accelerometer 10 mV/g, 4 inputs for temperature or 0 – 10 VDC	SiV02.021
SiViB Record 1512 STM	2 input for accelerometer 10 mV/g, 2 inputs for temperature or 0 – 10 VDC	SiV02.022
SiViB Record Control Light	Configuration software for Windows (free with instrument)	SiV09.030
SiViB Record Control Pro	For configuration and advanced diagnosis functions	SiV09.031
USB cable	USB-A to USB micro PC – SiViB for configuration and download	SiV09.045

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