

SiViB Record 1500E STM



Machine Condition Monitor with Ethernet Connection 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

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. A minimum of 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 superseedes 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 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 link or alternatively by Ethernet. The software SiViB Record Control unloads the data 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.

SiViB Record

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 or 2 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 1501E STM	1 input for accelerometer 100 mV/g, 4 inputs for temperature or 0 – 10 VDC	SiV02.011E
SiViB Record 1502E STM	2 input for accelerometer 100 mV/g, 2 inputs for temperature or 0 – 10 VDC	SiV02.012E
SiViB Record 1503E STM	3 inputs for accelerometer 100 mV/g, no analog inputs	SiV02.013E
SiViB Record 1511E STM	1 input for accelerometer 10 mV/g, 4 inputs for temperature or 0 – 10 VDC	SiV02.021E
SiViB Record 1512E STM	2 input for accelerometer 10 mV/g, 2 inputs for temperature or 0 – 10 VDC	SiV02.022E
SiViB Record 1513E STM	3 inputs for accelerometer 10 mV/g,, no analog inputs	SiV02.023E
SiViB Record WS 1532E STM	1 input for accelerometer 100 mV/g, 2 inputs for eddy current probes	SiV02.032E
USB cable	USB-A to USB micro PC – SiViB for configuration and download	SiV09.045

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