

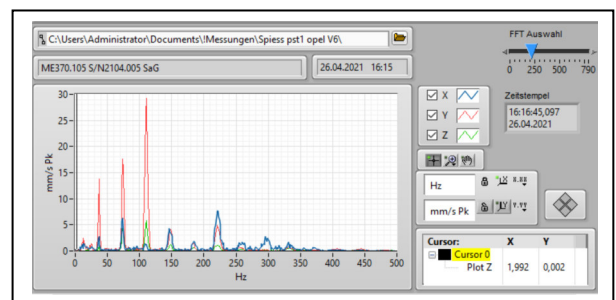
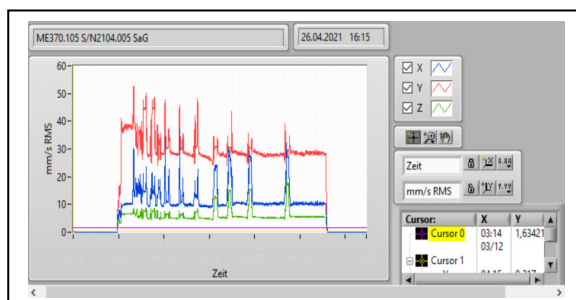
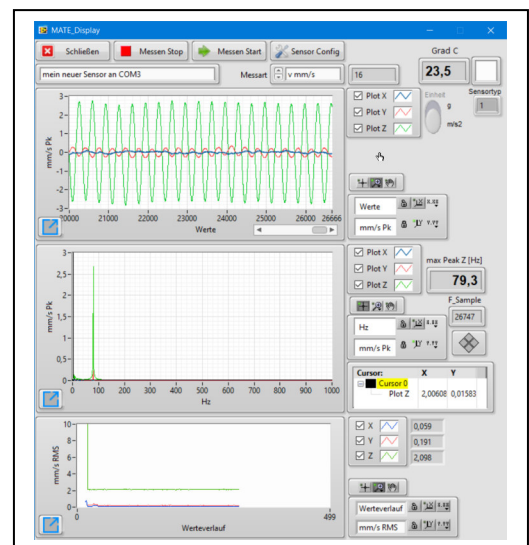
DigiVib 370 vibration measurement system



- smart **digital vibration sensor** with integrated measurement electronic
- simply connect **DigiViB-Sensor** directly to computer via USB, start **DigiVib-Control-Software** and measure
- compact triaxial acceleration sensor for simultaneous measurements in all 3 axis with a wide frequency range 0 - 10,000 Hz
- **Heavy-duty design** for use in harsh environments: compact hard aluminum housing with potted 3m connection cable, extendable by active USB extension cables
- **DST**: smart digital signal transmission and special shielding for interference-free signals even in EMC-critical environments

Sensor and Measuring System in one:

- **fast, ready to go**, simple intuitive operation
- **overall values** for easy evaluating of vibration condition
- **frequency analysis (FFT)** for machine diagnostics
- additional **speed-** and **temperature measurement** possible
- several **DigiVib-sensors** can be connected to one computer via USB-hub or via **DigiVib SPEEDBOX**
- suitable for any computer with USB port and windows



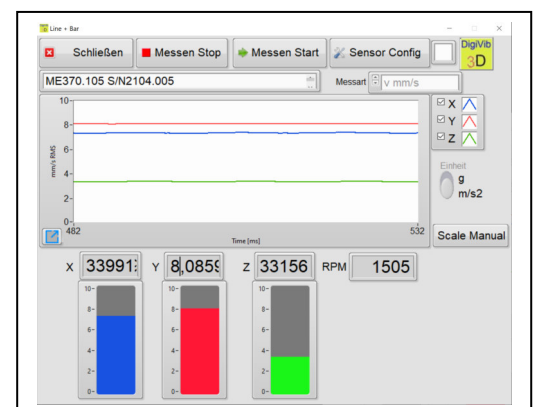
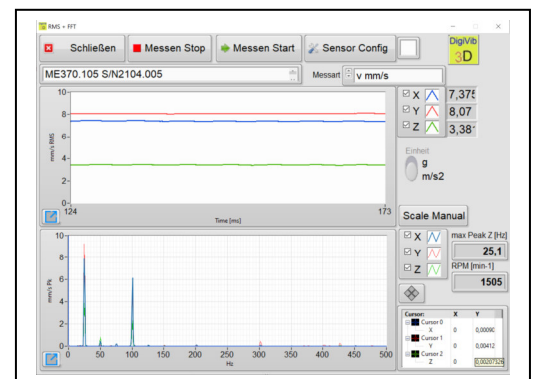
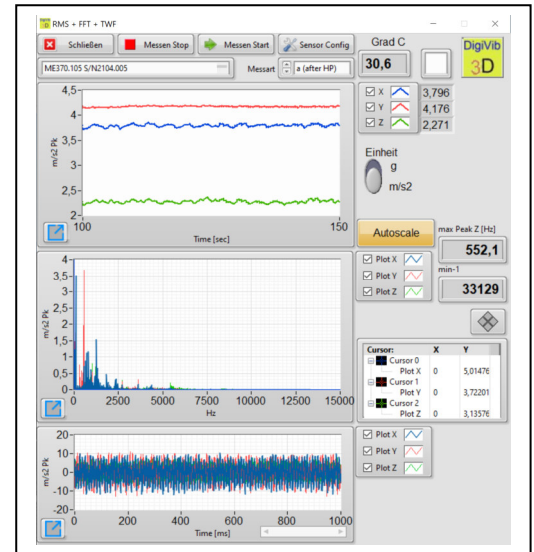
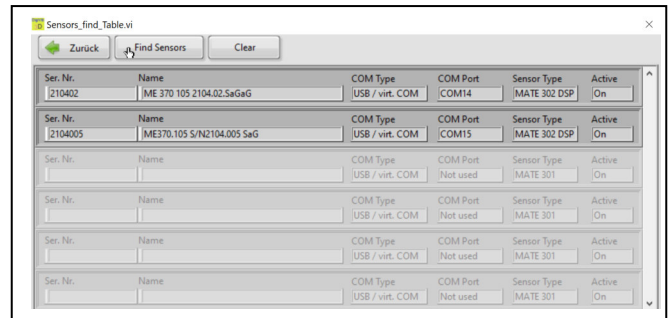
DigiVib 370 vibration measurement system

Features

- Automatic Sensor Detection**
 simply connect sensor(s) to any USB socket(s) at computer or hub and press "Find Sensors"
- Practice-Oriented Measured Value Display**
 - vibration overall values vers time
 - FFT: frequency analysis
 - TWF: time-wave-forms
 - BAR: bar graph display green / yellow / red
 - speed in RPM
 - temperature in °C or °F
- Documentation / Evaluation**
 all displayed values can be saved on computer - even over a longer period of time
 stored data can be evaluated in between DigiVib-Control Software
 simple ASCII data format for easy data conversion to other programs
- Digital Interface**
 by using USB interface you can transmit measured values directly from the DigiVib sensor to a computer, machine PLC or test bench control
 depending on your needs it's possible to transmit only few overall values or high-resolution FFT-data
- DigiVib-Sensor as an Autonomous Measuring System**
 after a one-time parameterization, DigiVib sensor starts operation immediately after power supply
 optional black box function: relevant vibration load data can be saved directly in non-volatile memory in sensor, read out is PW protected
- Automatic Speed Detection / Option: Speed Measurement with Photo-Probe via DigiVib SPEEDBOX**
 DigiVib automatically detects RPM and displays it in the DigiVib Control software.
 In cases where this is not possible or for speed triggered order analysis or for field balancing you can use a photo probe / speed sensor which can be connected to DigiVib SPEEDBOX
- Integrated Temperature Measurement**
 DigiVib sensor has an integrated temperature measuring element.
 This also enables a indirect temperature measurement / monitoring of the measurement object

DigiVib is an innovative comprehensive vibration measurement system for smart machine monitoring, for condition based maintenance, for use in RD-areas, quality control, for machine acceptance tests, in the service and repair area and for troubleshooting in the area of machine diagnosis

DigiVib is a vibration sensor, vibration measuring device, vibration monitoring system in one small box - powerful and inexpensive, just as you need it for your respective task



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Technical Data

Sensor ME370.105

Sensor principle	MEMS capacitive, digital (Micro Electronic Mechanical System) with Microcontroller
Axis	3 (X, Y, Z)
Output	digital via USB 2.0
Measuring Range	configurable +/- 2; 4; 8; 16 g
Noise	max. 100 µg/Hz
Resolution	16 Bit; 0,1 bis 0,5 mg, depending on the measurement range
Frequency Range	0 Hz bis 6,3 kHz (restricted to 10 kHz)
Filter	High pass, configurable Low pass, configurable
Measurement	acceleration as raw data
Data Rate	26,666 kHz
Temperature Measurement	integrated, ca. -30 up to + 85 Grad C
Supply	5 V DC
Housing / Design	25x25x10 mm housing aluminum, hard anodized; IP68
Attachment	2 screws M3 tightening torque: 1,5 Nm (for screw DIN 912 8.8) optional: mounting adapter for 1 screw M5, M6, M8, adhesive adapter, magnetic base flat, magnetic base prismatic
Cable	3 m connection cable, potted at the sensor, shielded cable end: plug USB A, optional: free cable end, Lemo-connector or similar.
Working Temperature:	-30 ... + 85 ° C
Storage Temperature:	-40 ... + 100 ° C

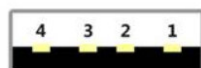
Technical Data Sensor ME370.106

Design and technical data same as ME370.105, but with the following changes / extensions:	
Speed Measurement	Speed signal processing 60 – 200,000 rpm: RPM trigger pulse or photo probe signal is fed to the sensor via the optional DigiVib SPEEDBOX and is available for RPM or phase-related measurements (order analysis, phase angle measurements, balancing)
Cable	3 m connection cable, potted at sensor, shielded cable end: plug, 6-pin, for connection to DigiVib SPEEDBOX including adapter cable: cable coupling, 6-pin, to USB A plug, for direct connection of the ME370.106 sensor to a computer

Pin assignment USB-A

according to the USB standard

Connector from the front:



Typ-A

Cable assignment with an open end:

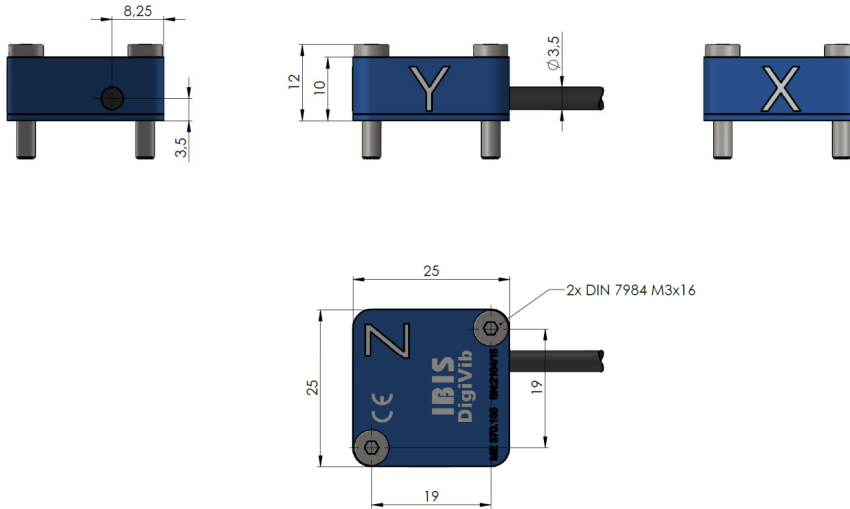
(Shield sensor side on the housing)

1	V+	yellow
2	D-	white
3	D+	green
4	GND	brown
Shield		braided shield

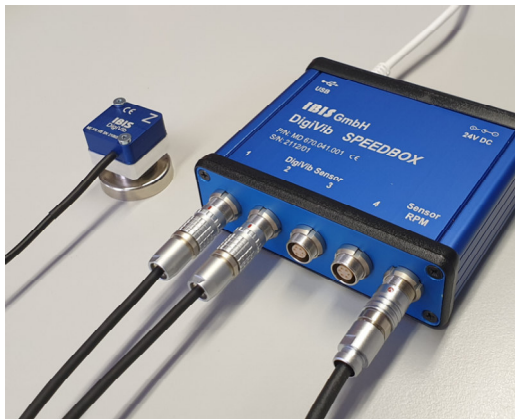
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Dimensions:

Sensor ME370.105, ME370.106



Accessories:



DigiVib *SPEEDBOX*

for speed signal processing

Connection possibility for 1-4 sensors ME370.106, ME370.301 as well as for 1 photo probe

In-/Outputs:

- 4 x round sockets, 6-pin, for sensors ME370.106, ME370.301
- 1 x round socket, 4-pin, for photo probe / speed pulse 4...24 V
- 1 x USB-C
- 1 x power supply 24V DC

Dimensions: 107x100x36mm

Weight: about 0.3kg

Delivery incl. USB cable and plug-in power supply

Carrying Case



Extension Cable



Active USB extension cable (with built-in repeater)
are available in lengths of 5 m and 10 m

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