



## OrbiVib2

- Profibus DP Interface
- USB Interface
- 8 independent configurable frequency bands
- External Dual axis Accelerometer
- 2 Digital Inputs with Encoder function
- 2 Relay Outputs
- Real Time Clock
- Internal non-volatile error buffer
- Internal non-volatile vibration trace data buffer
- DIN-rail snap-on mounting
- Programmable configuration
- Stand Alone security loop functionality



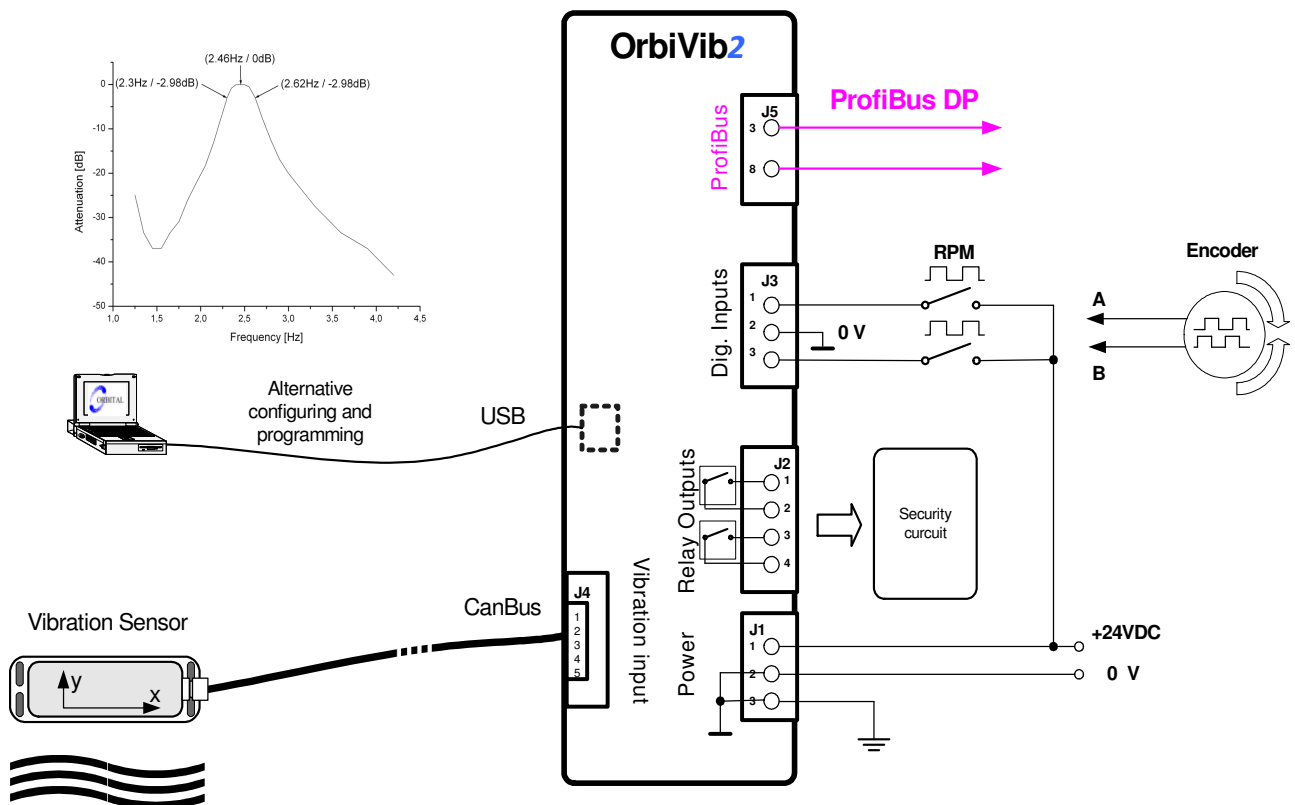
**OrbiVib2** is designed for vibration measurements in the frequency range 0.1–100 Hz. Up to 8 independent configurable frequency bands can be used to monitor and supervise accelerations in the frequency range of interest. The band-pass filter parameters, the vibration excess values and the reaction times can be configured individually for each frequency band.

The **OrbiVib2** module provides 2 digital RPM inputs, which also can be used as an encoder input.

Two relay outputs are individually programmable for activation of RPM or/and vibration excess. An integrated 100 samples deep data/trace logger will capture all relevant information in case of an excess and will save it together with a time stamp in a non-volatile memory. Via the USB port these data can be exported and FFT evaluated by using third party programs like Matlab® or Octave®.

Either the Profibus DP or the USB interface can be used for configuration, monitoring and controlling of the OrbiVib2 system. In addition a stand-alone operation after configuration is possible.

A GSD[E] file provides the master with all needed information about the module and the data protocol.



# OrbiVib2

## Technical specifications:

Parameter	Condition	Min.	Typ.	Max.	Unit
<b>Power Supply</b>					
Supply Voltage		19	24	30	Vdc
Power Consumption	24Vdc +/- 10%			3	W
<b>Relay output</b>					
Switching voltage				250 / 30	Vac / Vdc
Switching current		0.01		5 / 5	Aac / Adc
Scan cycle			100		msec
<b>Digital / Counter inputs</b>					
Input impedance			4400		Ohm
Input voltage			24	+/- 60	Vdc
Low input level		0		8	Vdc
High input level		16	24	60	Vdc
Input frequency		1		500	Hz
<b>Profibus</b>					
Baud rate		9600		12M	Baud
<b>Accelerometer</b>					
Cable length			10	20	m
Acceleration range		+/- 14			m/s <sup>2</sup>
Acceleration range		+/- 14			m/s <sup>2</sup>
Frequency range		0.1		100	Hz
Filter bandwidth		0.1		10	Hz

**Electromagnetic compatibility:** EN 50 081-2      Generic emission standard      Industrial environment  
    EN 50 082-2      Generic immunity standard      Industrial environment  
**Operating temperature:** -40 – 50 °C  
**Storage temperature:** -40 – 85 °C  
**Environment module:** IP20  
**Environment sensor:** IP65  
**Humidity:** 0 – 95% RHD non condensing

