GEM**VM**03 Overview

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Visualization: VM-03 Visu

illustration similar

MACHINE MONITORING – VIBRATION & TEMPERATURE

GEM**VM**03 in stand-alone mode

Additional features during stand-alone operation
- Physical I/O interfaces (7 inputs – 6 outputs)
- 8 different operating modes
- 5 different static alarms for each mode
- Fast alarm messages (< 1ms)
- Alarm event data recording
- 1 analog output
- Signal values log file

Available signals
- 3 x vibration velocity (mm/sec)
- 3 x acceleration (g)
- 1 x FFT (512 points)
- 3 x temperature
- 3 x gravity (only with dedicated sensor)
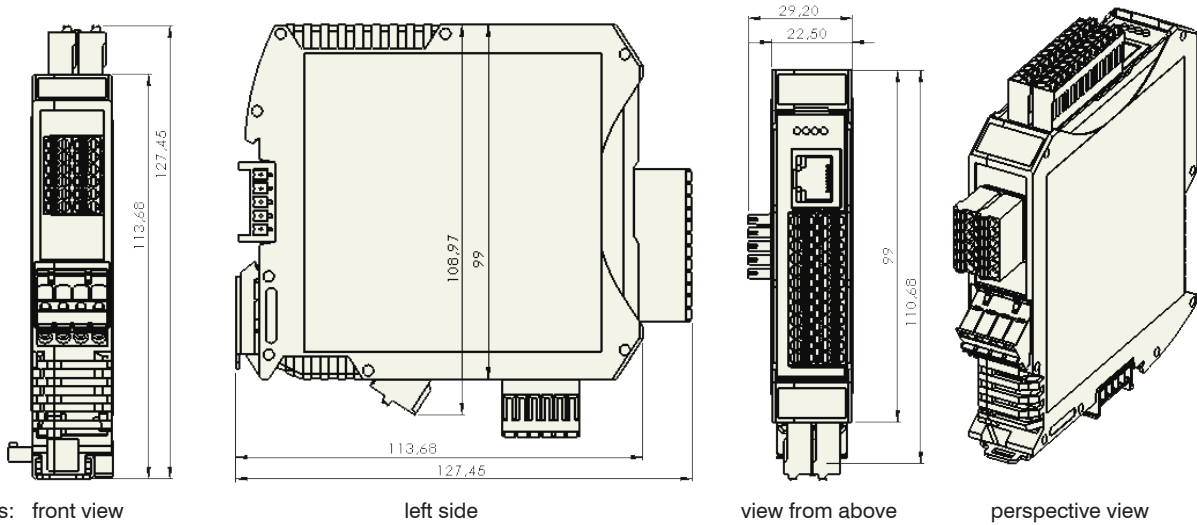- Resolution 1 ms

Features

- 3 independent accelerometer inputs (IEPE standard)
- 3 independent temperature sensor inputs (PT100 standard)
- 1 limit defineable for each temperature sensor
- 10 Hz ... 8 kHz frequency range
- X, Y, Z gravitiy values (only with dedicated sensor)
- Analysis tool VisuScope for evaluation in real time or subsequent evaluation based on stored measuring data
- 16 kHz sampling rate
- 16 bit resolution

If GEM**VM**03 is connected to the GENIOR MODULAR system, the following additional signals are availabe for tool and process monitoring:

- 3 x vibration velocity (mm/sec)
- 3 x acceleration (g)

Machine Monitoring – Vibration & Temperature

GEM**VM**03

Views: front view   left side   view from above   perspective view

O830ZA00101	
General data	
Dimensions	see drawing
Mounting	Standard mounting rail DIN EN 60715
Weight	0.196 kg
Material	Polyamide PA6.6
Flammability class	VO (UL94)
Storage temperature	-20 °C ... +60 °C
Operation temperature	+5 °C...+50 °C
Atmospheric relative humidity	Storage < 95, Operation < 85 % + 85 % ≤ RH < 95 %
Degree of protection	IP20
Contacting	Spring terminal, in-rail bus connector
Voltage supply	24 V DC ±20 % max. 5 % ripple
Nom. current consumption	max. 250 mA
Resolution	16 bit
Measuring inputs	3 X IEPE 3 X PT100
Accuracy	< 0.5 %
Frequency range	10 Hz ... 8 kHz (depending on sensor)
Sampling rate	16 kHz
Suitable sensor (order separately)	all acceleration sensors with IEPE interface and PT100 temperature sensors

Use for collision monitoring purposes	
Interface	RS485 for dedicated sensor
Input signals	7 input signals
Output signals	6 output signals
Inputs	
1-signal source:	8 V – 36 V / 5 mA
0-signal source:	0 V – 7 V / 5 mA
1-signal sink:	0 V – 19 V / 5 mA
0-signal sink:	20 V – 36 V / 5 mA
Outputs	
1-signal source:	24 V typ., max. 100 mA
0-signal source:	open
1-signal sink:	0 V – 1 V
0-signal sink:	open
Analog output	0 – 10 V
Conformity	CE

Operation with GENIOR MODULAR	
Interface	ARTIS CAN bus

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