

MACHINE MONITORING – VIBRATION & TEMPERATURE

Stand-alone operation of VM-03

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

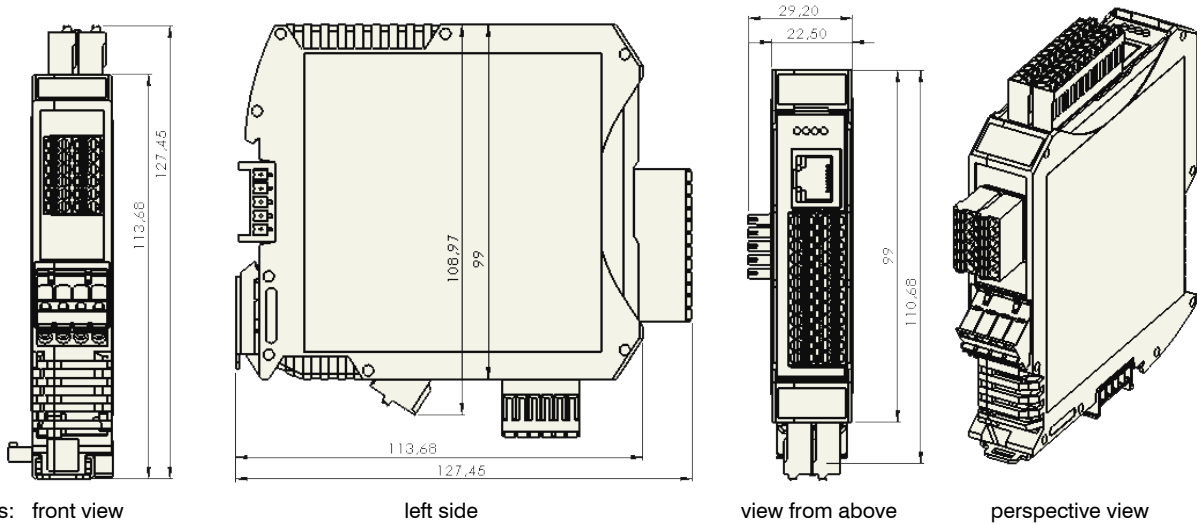
- 3 independent accelerometer inputs (IEPE standard)
- 3 limits defineable for each graphic
- 3 independent temperature sensor inputs (PT100 standard)
- 1 limit defineable for each temperature sensor
- 10 Hz ... 10 kHz frequency range (IEPE standard)
- X, Y, Z gravity values (only with dedicated sensor)
- 16 kHz sampling rate
- 16 bit resolution

If VM-03 is connected to the GENIOR MODULAR system, the following additional signals are available for tool and process monitoring (coming soon):

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

Machine Monitoring – Vibration & Temperature

VM-03



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 ...10 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



www.marposs.com

For a full list of address locations, please consult the Marposs official website

ODN6422EN11 – Edition 04/2018 – Specifications are subject to modifications
© Copyright 2018 MARPOSS Monitoring Solutions GmbH (Germany) – All rights reserved.

ARTIS and Marposs product names/signs mentioned or shown herein are registered trademarks or trademarks of Marposs in the United States and other countries. The rights, if any, of third parties on trademarks or registered trademarks mentioned in the present publication are acknowledged to the respective owners.

Marposs has an integrated system to manage the Company quality, the environment and safety, attested by ISO 9001, ISO 14001 and OHSAS 18001 certifications. Marposs has further been qualified EAQF 94 and has obtained the Q1 Award.



Download the latest version of this document