

# GEMVM

## MONITORING AND ANALYSIS OF MACHINES AND COMPONENTS

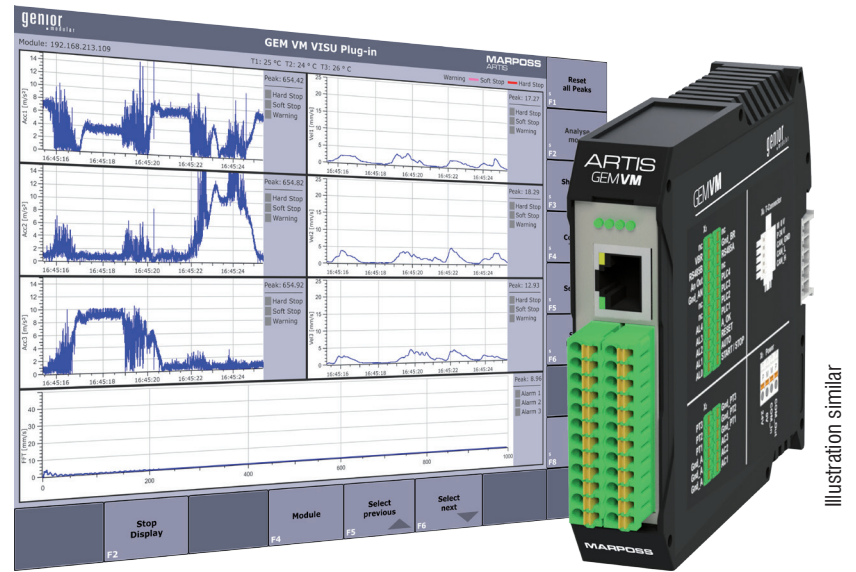


Illustration similar

### Properties

- 3 independent accelerometer inputs (IEPE standard)
- 3 limits definable for each graphic window
- 3 independent temperature sensor inputs (PT100 standard)
- 1 limit definable for each temperature sensor
- 10 Hz ... 8 kHz frequency range
- X, Y, Z gravity 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
- MultiView capable (parallel operation of several modules at one visualization)

If GEMVM is connected to the GENIOR MODULAR system, the following additional signals are available for tool and process monitoring:

- 3 x vibration velocity (mm/s)
- 3 x acceleration (m/s<sup>2</sup>)

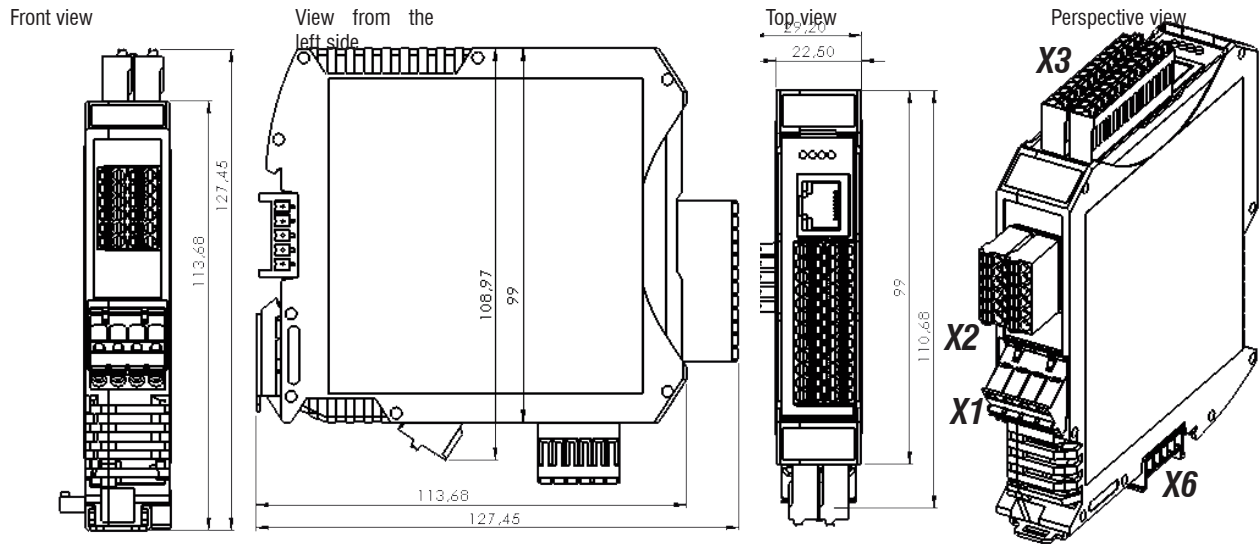
### GEMVM in stand-alone mode

#### Additional features in stand-alone mode

- Physical I/O interfaces (7 inputs – 6 outputs)
- 8 different scenarios
- 21 different static alarms for each scenario
- Fast alarm messages (< 1ms)
- Alarm event data recording
- 1 analog output\* (see page 2)
- Signal values stored in a .CSV log file

#### Available signals

- 3 x vibration velocity (mm/sec)
- 3 x acceleration (m/s<sup>2</sup>)
- 1 x FFT (512 points)
- 3 x temperature
- 3 x gravity (only with dedicated sensor)
- Resolution 1 ms



GENERAL DATA	
ARTICLE NUMBER	
GEMVM	O830ZA00101
GEMVM+*	O830ZA00102

STANDARD IP ADDRESS	192.168.214.83
DIMENSIONS	see drawing
WEIGHT	0.196 kg
MATERIAL	Polyamide PA 6.6
STORAGE TEMPERATURE	-20 °C... +60 °C
OPERATING TEMPERATURE	+5 °C... +50 °C
UL-CLASSIFICATION	VO (UL94)
DEGREE OF PROTECTION	IP30
ATMOSPH. REL. HUMIDITY	Storage < 95 Operation < 85 % +... 85 % ≤ RH < 95 %
INSTALLATION	DIN EN 60715 standard mounting rail
CONTACTING	Spring terminal in-rail bus connector

MEASURING	
MEASURING INPUTS	3 x IEPE 3 x PT100 suitable sensors (order separately): all acceleration sensors with IEPE-interface and PT100 temperature sensors
ACCURACY	< 0.5 %
FREQUENCY RANGE	10 Hz ... 10 kHz (sensor dependent)
SAMPLING RATE	16 kHz
RESOLUTION	16 bit
CONFORMITY	CE, UKCA

SOFTWARE REQUIREMENTS VISUALIZATION	
OPERATING SYSTEM	<ul style="list-style-type: none"> <li>Microsoft Windows® as of WIN XP SP3</li> <li>Siemens 840D as of V 04.05. (PCU/TCU)</li> </ul>
MINIMUM RAM	512 MB
MIN. CLOCK FREQUENCY	600 MHz
MOUSE/TOUCHSCREEN	recommended

COLLISION MONITORING WITH GEMVM	
INTERFACE	RS485 for dedicated sensor
ETHERNET	10/100 Mbit/s
CONNECTION X1	24 V DC ±20 %, max. 5 % ripple (or via in-rail bus connector)
NOM. CURRENT CONSUMPTION	max. 250 mA
CONNECTION X2	3 x IEPE, 3 x PT100
CONNECTION X3	7 input 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 / 5mA
OUTPUTS	1-SIGNAL SOURCE 24 V typical, max. 100 mA 0-SIGNAL SOURCE open 1-SIGNAL SINK 0 V ... 1 V 0-SIGNAL SINK open
ANALOG OUTPUT* FOR GEMVM+ ONLY	0 ... 10 V
CONNECTION X6	CAN bus, 24 V DC

OPERATION WITH GENIOR MODULAR	
Interface	CAN bus



www.marposs.com

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

ODN6422EN16 – Edition 06/2023 - Specifications are subject to modifications  
© Copyright 2010-2023 MARPOSS S.p.A. (Italy) - All rights reserved.

MARPOSS, ® 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 this publication are acknowledged to the respective owners.

Marposs has an integrated system for Company quality, environmental and safety management, with ISO 9001, ISO 14001 and OHSAS 18001 certification.



Download the latest version of this document

