

GEMVM

MONITORING AND ANALYSIS OF MACHINES AND COMPONENTS

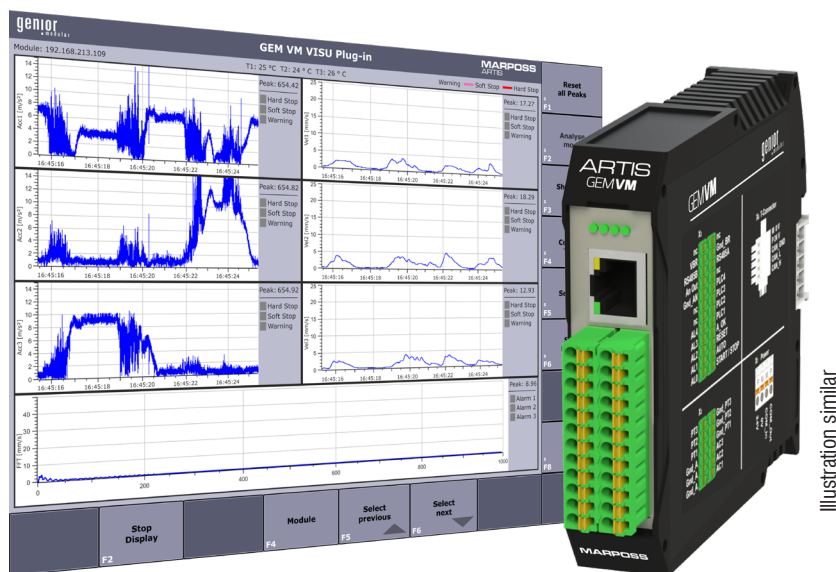


Illustration similar

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/s²)

GEMVM in stand-alone mode

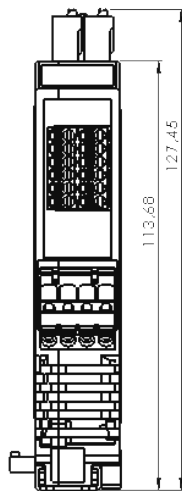
Additional features in stand-alone mode

- 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

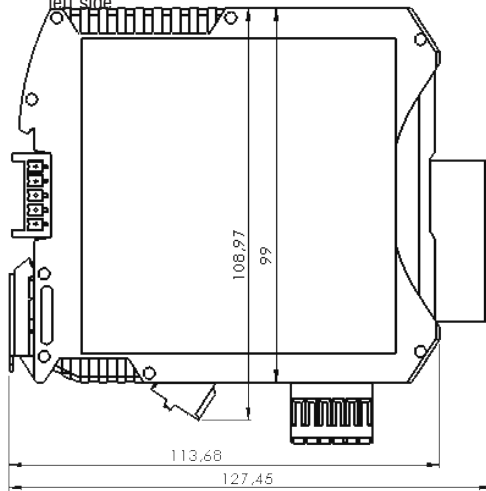
Available signals

- 3 x vibration velocity (mm/sec)
- 3 x acceleration (m/s²)
- 1 x FFT (512 points)
- 3 x temperature
- 3 x gravity (only with dedicated sensor)
- Resolution 1 ms

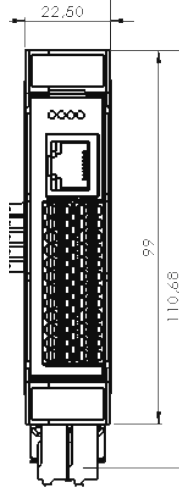
Front view



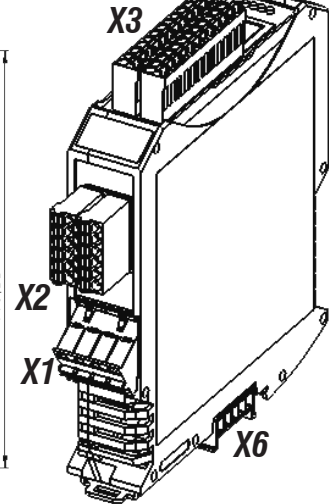
View from the left side



Top view



Perspective view

**GENERAL DATA**

ARTICLE NUMBER	
GEMVM	0830ZA00101
GEMVM+*	0830ZA00102

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"> Microsoft Windows® as of WIN XP SP3 Siemens 840D as of V 04.05. (PCU/TCU)
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	
IN-/OUTPUT SIGNALS	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
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For a full list of address locations, please consult the Marposs official website

ODN6422EN16 – Edition 01/2025 - Specifications are subject to modifications
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