

GEMBR

MONITORING SYSTEM FOR BREAKAGE AND MISSING DETECTION

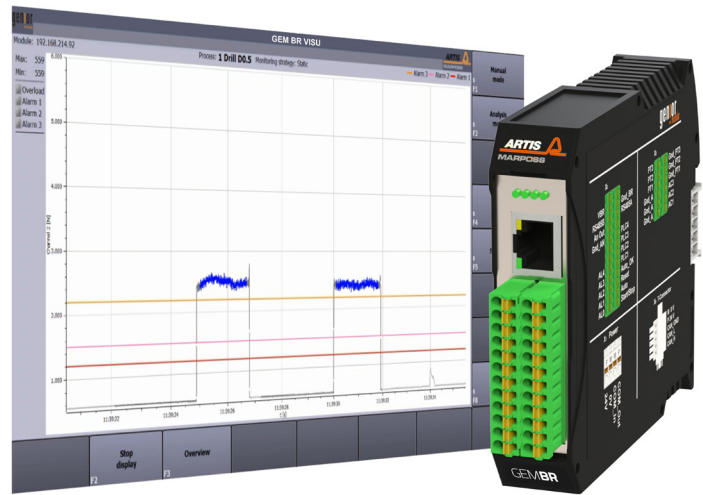
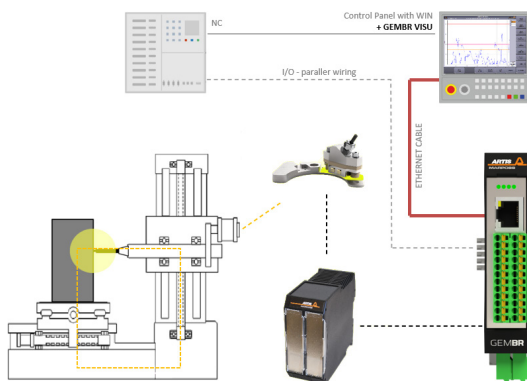


Illustration similar

Stand-alone operation

As a stand-alone module GEMBR is an ideal solution for detecting breakage of all tools also for high speed machining operations. The system is used for processing metallic materials and has an important field of application in processes with tools down to 0.1 mm.



*Application example:
GEMBR Monitoring System for Breakage and Missing Detection: GEMBR module with GEMBR Visu and a BRS sensor*

Properties

- Breakage detection for all tools
 - esp. for finishing processes
 - and for high speed machining operations with tools, even very small diameters (0.1 mm)
- Material contact detection
- Realtime monitoring independent of tool design and size
- 127 different cycles
- Connection to all machine controls possible via digital I/Os
- Simple installation in the machine cabinet
- MultiViewcapable (parallel operation of several modules at one visualization)

ARTICLE NUMBERS

O830Z910501	GEMBR Monitoring module for detecting tool-breakage and missing tools
OCMZ0102000	GEM BR VISU Software 102.0.0

COMPATIBLE SENSORS

BRS sensor series	Customized inductive toroid sensors
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GENERAL DATA	
DIMENSIONS	see drawing
STANDARD IP ADDRESS	192.168.214.95
WEIGHT	138 g
MATERIAL	Polyamide PA 6.6
STORAGE TEMPERATURE	0 °C ... +70 °C
OPERATING TEMPERATURE	+5 °C ... +50 °C
UL-CLASSIFICATION	VO (UL94)
DEGREE OF PROTECTION	IP30
ATMOSPH. REL. HUMIDITY STORAGE	max. 2 months, no condensation < 95 %
OPERATION	< 85 % and 85 % ≤ RH < 95 %
INSTALLATION	DIN EN 60715 standard rail
CONTACTING	Spring terminal, screw terminal

CONNECTIONS	
CABLE CROSS SECTION	0.2...1.5 mm ²
ETHERNET PORT	10/100 MBit
CONNECTION X1	24 V DC ±20 %, 300 mA SELV type acc. to EN 60950-1 Sink-/source operation selectable
CONNECTION X2	BRS sensor connection
BRS SENSOR IMPEDANCE	500 Ω ... 10000 Ω
CONNECTION X3	
INPUT/OUTPUT SIGNALS	10 digital input signals, 8 output signals 2 outputs power supply ±15 V, ± 180 mA
INPUTS	
1-SIGNAL SOURCE	8 V ... 24 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 ... 24 V / 5mA
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
CONNECTION X6	CAN bus

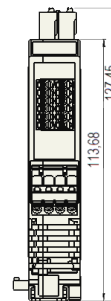
MEASURING	
SAMPLING RATE	10 kHz
RESOLUTION	16 bit

VIBRATION LOAD	
TRANSPORT	ISTA 1
OP. TEST FC 2g max.connection	(10 ... 55) / 0.15 / (10 ... 55) / 0.35

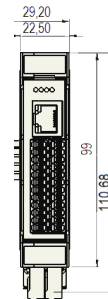
SOFTWARE REQUIREMENTS VISUALIZATION	
OPERATING SYSTEM	<ul style="list-style-type: none"> Microsoft Windows® as of WIN XP SP3 Siemens 840D as of V 04.05. (PCU/TCU)
MINIMUM RAM	512 MB
MIN. CLOCK FREQUENCY	600 MHz
MOUSE- /TOUCH OPERATION	recommended

CONFORMITY	
	CE, UKCA

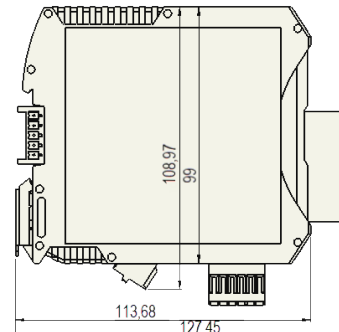
front view



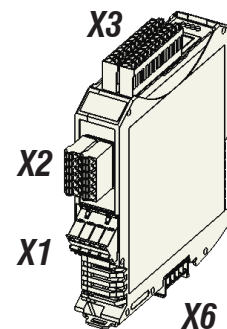
top view



left side



perspective view



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

ODN6422EN22 – Edition 06/2022 – Specifications are subject to modifications
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