



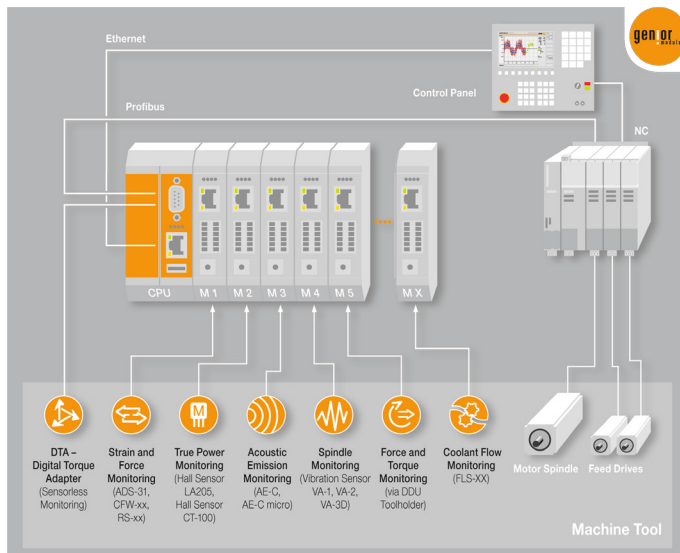
Illustration similar

Properties

- Monitoring system for machine tools in serial production lines
- Supported interfaces:
Profibus, Focas 2, Profinet, parallel wiring
- Monitors tool breakage, missing tools, tool wear, Adaptive Control (AC)
- Monitors up to 10 NC-channels
- Up to 8 additional sensors connectable
- Max. 24 signals
- Sample rate adjustable (min. 2 ms, typical 10 ms)

TOOL & PROCESS MONITORING BASE MODULE

Modular System

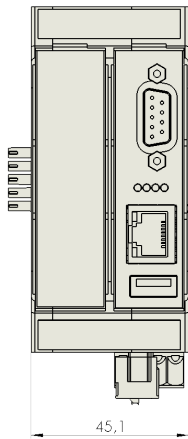


GENIOR MODULAR is a fully automatic modular system for process-monitoring and -control for machine tools in metal cutting. GENIOR MODULAR captures the necessary measurement data digitally via the base module GEMCPUDP/F. For special monitoring tasks, the system may also be operated with different sensors and corresponding measuring transducers.

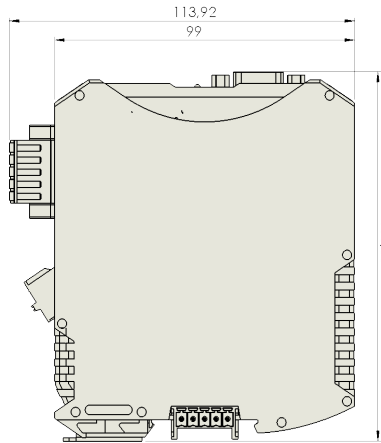
Measuring transducers for:	
GEMFM01	Force, strain and coolant flow $\pm 10\text{ V}$, 4...20 mA
GEMTP01/GEMTMUTP	True power
GEMAM01	Acoustic emission
GEMVM01	Vibration and acceleration
GEMVM02	Vibration and acceleration, collision monitoring
GEMVM03	Machine monitoring, vibration and temperature
GEMTF01	Torque and axial force
GEMIO01	Input-/output converter

GENIOR MODULAR Base Module

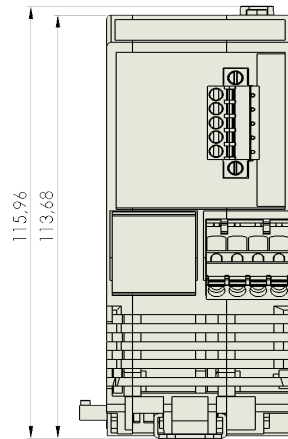
GEMCPUDP/F



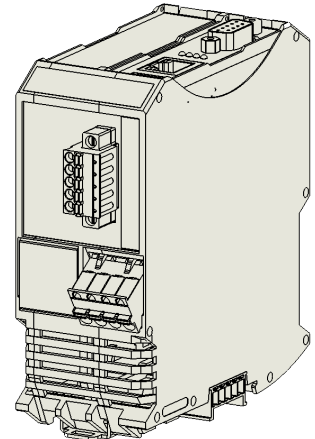
front view



view from right side



view from below



perspective view

O830Z510004	
Dimensions	see drawing
Weight	243 g
Material	Polyamide PA 6.6
Storage temperature	-20 °C...+60 °C
Operating temperature	0 °C...+50 °C
Flammability class	VO (UL94)
Rel. humidity	5 – 85 % no condensation
Degree of protection	IP20
Contacting	Spring terminals, in-rail bus connector
Installation	Mounting rail acc. to DIN EN 60715
Voltage supply	24 V ±20 %
Nom. current consumption	max. 500 mA
Ripple	max. 5 %
Interfaces	2 x ARTIS CAN-Bus 10/100 Base T Ethernet USB Host Profibus up to 12 MBits/s
Control requirements	Profibus or Focus or Profinet or inputs/outputs for parallel wiring

Control types (examples)	Siemens 840D SL, Fanuc, Bosch-Rexroth etc.
Conformity	CE

Licence codes for additional GENIOR MODULAR functions (order separately)

GEM DTA-DP OCMZ5100004	Licence code for activating the sensorless torque monitoring
GEM C OCMZ5100005	Licence code for activating one additional monitoring channel
GEM F-AC OCMZ5100003	Licence code for activating the Adaptive Control AC
GEM F-WEAR OCMZ5100002	Licence code for activating the wear monitoring

Supported components

Cable Ethernet (CO) (Code see cable lengths)	Connection cable (crossover) 2 m: Code O6739797065 5 m: Code O6739797066 10 m: Code O6739797067 20 m: Code O6739797068
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www.marposs.com

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

ODN6421EN02 – Edition 02/2019 – Specifications are subject to modifications
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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.



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