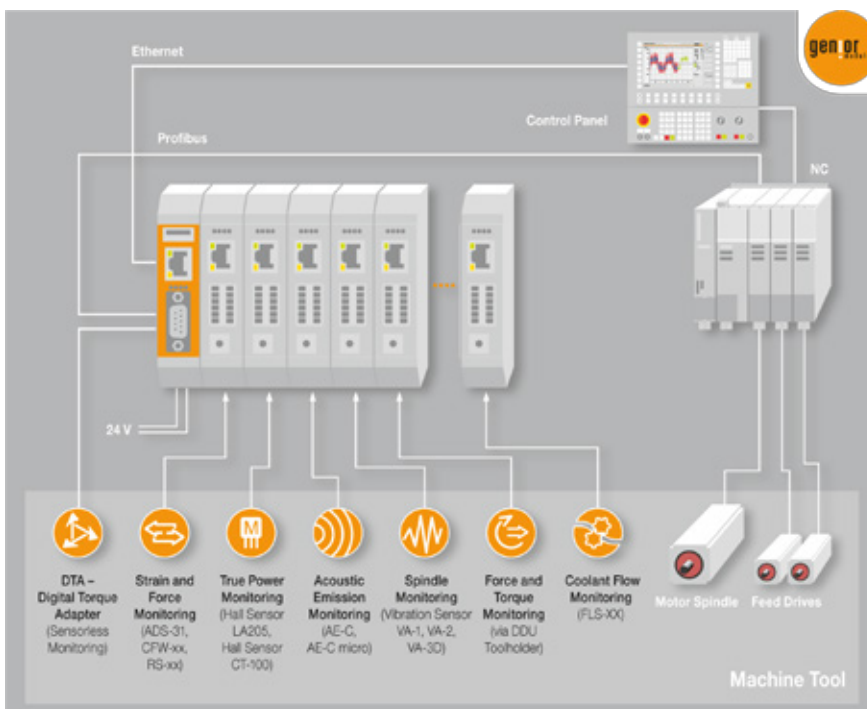# GEM CPU-01-DP *data sheet*

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Special Features

- Monitoring system for machine tools in serial production lines
- Monitors tool breakage, missing tools, tool wear, Adaptive Control (AC)
- Monitoring oof up to 10 NC-channel
- Up to 8 additional sensors connectable
- Max. 16 signals (typical sampling rate of 10 ms)
- Sampling rate adjustable (min. 2 ms, typical 10 ms)

GENIOR MODULAR BASE MODULE
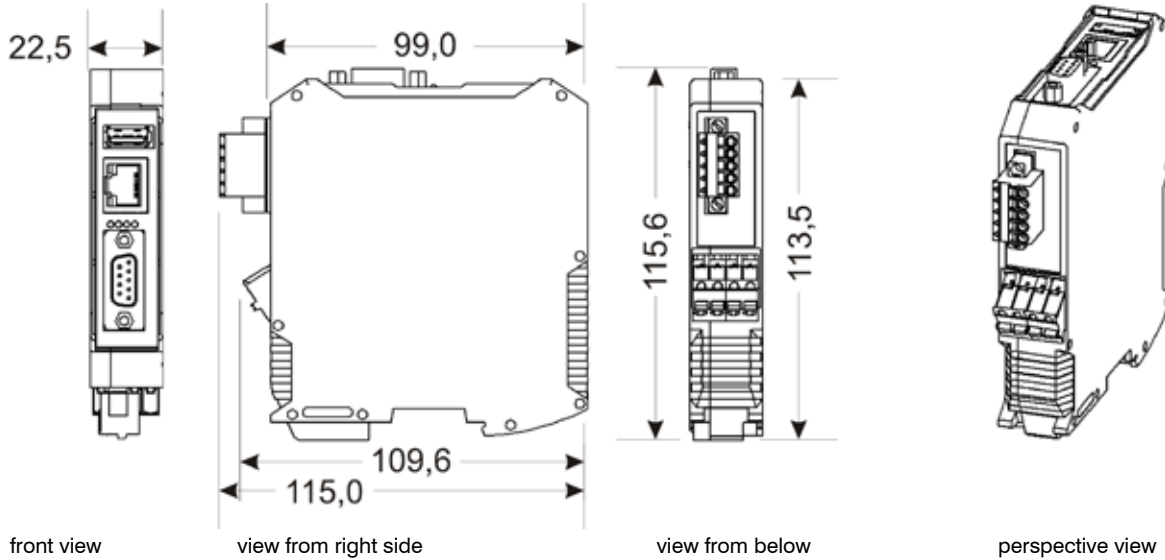

Modular System

Genior Modular is fully automatic system for process-monitoring and -control for machine tools in metal cutting.

Genior Modular captures the necessary measurement data digitally via the base module GEM CPU-01-DP. For special monitoring tasks the system may also be operated with different sensors and corresponding measuring transducers.

Measuring transducers for:	
FM-01	Force-, strain and coolant flow
TP-01	True power
AM-01	Acoustic emission
VM-01	Vibration and acceleration
TF-01	Torque and axial force

IO-01	Input-/output converter

Genior Modular Base Module
GEM CPU-01 DP

front view   view from right side   view from below   perspective view

O830Z510002	
Dimensions	see drawing
Weight	125 g
Material	Polyamid PA 6.6
Storage temperature	-20 °C...+60 °C
Operating temperature	0 °C...+50 °C
Falmmability 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 consumtpion	max. 150 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	Compatible with: Siemens 840D Power Line Siemens 840D Solution Line Other control types upon request
Conformity	CE

Licence codes (order separately)	
GEM DTA-DP OCMZ5100004	Licence code for activating the sensorless torque monitoring for the Genior Modular System
GEM C OCMZ5100005	Licence code for activating one monitoring channel for the Genior Modular System
GEM F-AC OCMZ5100003	Licence code for activating the Adaptive Control AC for the Genior Modular System
GEM F-WEAR OCMZ5100002	Licence code for activating wear monitoring for the genior Modular System

Supported components	
Cable Ethernet (CO) Code: O6739797065 ...68 (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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