

CTMCPU

CTM TOOL AND PROCESS MONITORING SYSTEM



Illustration similar

Design example:

CTMCPUB for connection to Profibus or FOCAS (left) and
CTMCPUN for connection to Profinet or FOCAS (right)

Properties

- Monitoring system for machine tools in series and single-part production
- Flexible interface concept:
Profibus, Profinet, FOCAS
- Independent of controls and manufacturers
- Different monitoring options
- Process documentation
- Process optimization

Product matrix

Software tools and various software modules for data evaluation (plugins) complete the CTMCPU product matrix. The modularity of the system allows easy extension and integration of these external software modules into visualization and into process monitoring with CTM.

In addition, intelligent modules that monitor and display the condition of machines and components can, for example, provide a reliable database for preventive maintenance or help to avoid production downtimes and machine stoppages by detecting changes.

Functionalities

Visualization

4-CHANNEL
DISPLAY

Process, limits, learn data

CONFIGURATION

Operating aids, menus for automatic and manual limit adjustment

SCALING*

Display of absolute values, e.g. Nm

MULTI LINGUAL

Includes 7 languages (German, English, French, Italian, Portuguese, Spanish, Dutch)

OPT. FURTHER
LANGUAGES

Scandinavian, Eastern European languages, East Asian languages

Documentation**

DATA RETRIEVAL

Recent processes alarms and events

STATISTICS* WITH
AUTOMATIC FUNCTION

Data collection
(recent processes, recent alarms)

PROCESS-
DOCUMENTATION

Data collection, measuring data

SCREENSHOT-
FUNCTION

Selective saving of current visualizations

Optimization

AC ADAPTIVE
CONTROL

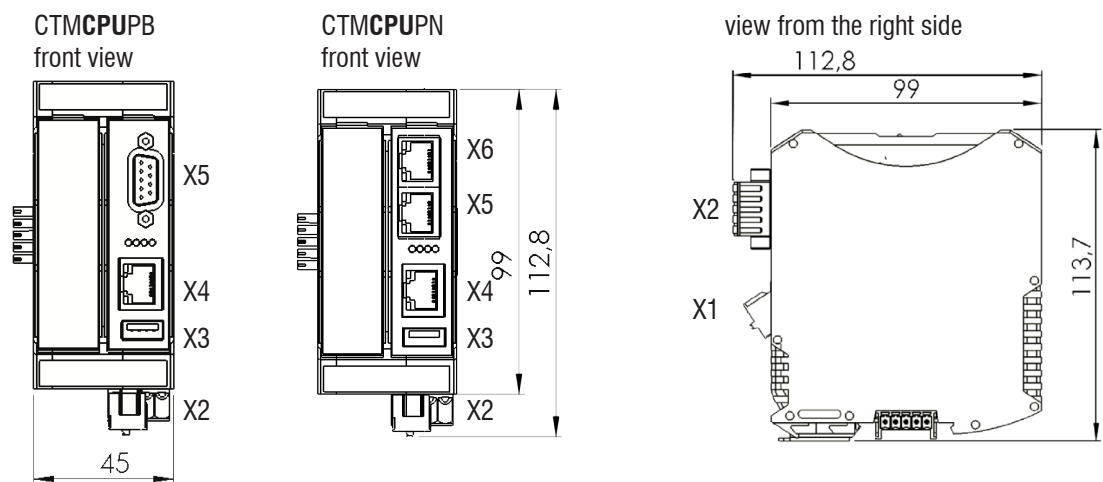
Feed control for constant load and reduction of cycle times

OPTIMIZATION OF
TOOL LIFE

By means of wear monitoring*

Legend * optional additional features ** optimal functional reliability depends on CPU- and network load

CTMCPU MONITORING MODULE



TECHNICAL DATA	
DIMENSIONS	see drawing
STANDARD IP-ADDRESS	192.168.214.70
WEIGHT	243 g
MATERIAL	Polyamide PA 6.6
STORAGE TEMPERATURE	-20 °C ... +60 °C
OPERATING TEMPERATURE	0 °C ... +55 °C
UL-CLASSIFICATION	VO (UL94)
DEGREE OF PROTECTION	IP30
ATMOSPH. REL. HUMIDITY	5 – 85%, no condensation
INSTALLATION	DIN EN 60715 standard mounting rail
CONTACTING	Spring terminals, in-rail bus connector
SUPPLY VOLTAGE	24 V DC (± 20 %)
NOM. CURRENT CONSUMPTION	max. 500 mA
PROCESSOR	Quad core 800 MHz
HARD DISK	2 GB MSATA SLC Fail safe

CONNECTIONS	PB	PN
WIRE CROSS SECTION	0.2...1.5 mm ²	
10/100 BASE T ETHERNET	✓	✓
PROFIBUS UP TO 12 MBITS/S	✓	–
FANUC/FOCAS	✓	✓
S828	–	✓
PROFINET	–	✓
ETHERNET/IP	–	–
USB HOST	✓	✓
CAN	✓	✓

REQUIREMENTS FOR THE VISUALIZATION	
WINDOWS OPERATING SYSTEM	WIN XP (SP3) / WIN 7 / WIN 8 / WIN 10 / WIN 11

MONITORING METHODS	
STANDARD	Breakage-, missing-, overload- and wear*-monitoring
SAS	Additional: selection of monitoring segments
DX/DT	For long machining processes or small lot sizes
WÄLZFRÄSEN*	Early wear detection
FLUIDSTRATEGIE*	For deep hole processing

* additional optional features

ARTICLE Numbers	
0830Z410041	CTM CPU PB FOCAS
0830Z410042	CTM CPU PN FOCAS S828
OCMZ0110812	CTM CPU VISU, Software 8.1.2

S828 software option in preparation


SENSOR MODULES please order separately		
0830ZA00303	GEM TP EL Entry Level	True power monitoring module
0830ZA00302	GEM TP	
0830ZA00101	GEM VM	One channel vibration and acceleration monitoring module
CONFORMITY	CE, UKCA	



www.marposs.com

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

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