MARPOSS
ARTIS

CTM**V6**
TOOL AND PROCESS MONITORING SYSTEM

CTM**V6**BASIC
CTM**V6**PB
CTM**V6**PN
CTM**V6**FOCAS
CTM**V6**IP
CTM**V6**S828
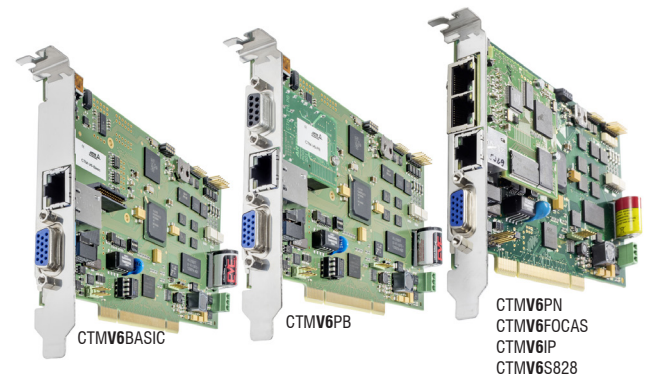
Properties

- Monitoring system for machine tools in serial production
- Flexible interface concept: Profibus, Profinet, Focas, Ethernet IP
- Independent of controls and manufacturers
- Different monitoring options
- Process documentation
- Process optimization

Application example

CTM**V6** – PB, sensorless retrieval of process data directly from the control core via DTA (Digital Torque Adapter)

Functionalities

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
GEAR HOBBING*	Early wear detection
FLUID STRATEGY*	For deep hole processing

VISUALIZATION

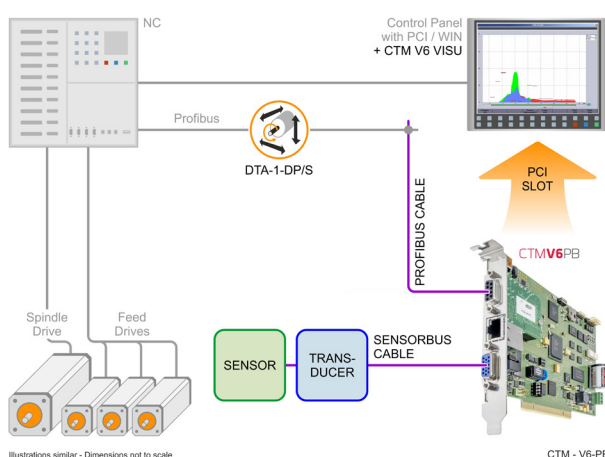|	
VISUALIZATION IN 4 CHANNELS	Process, limits, learn data
CONFIGURATION	Operation assistance, menus for automatic and manual adjustment of limits
SCALING*	Display of absolute values, e.g. Nm
MULTI LINGUA	Includes 7 languages (German, English, French, Italian, Portuguese, Spanish, Dutch)
OPT. FURTHER LANGUAGES	Scandinavian, Eastern European languages, East Asian languages

DOCUMENTAION***

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

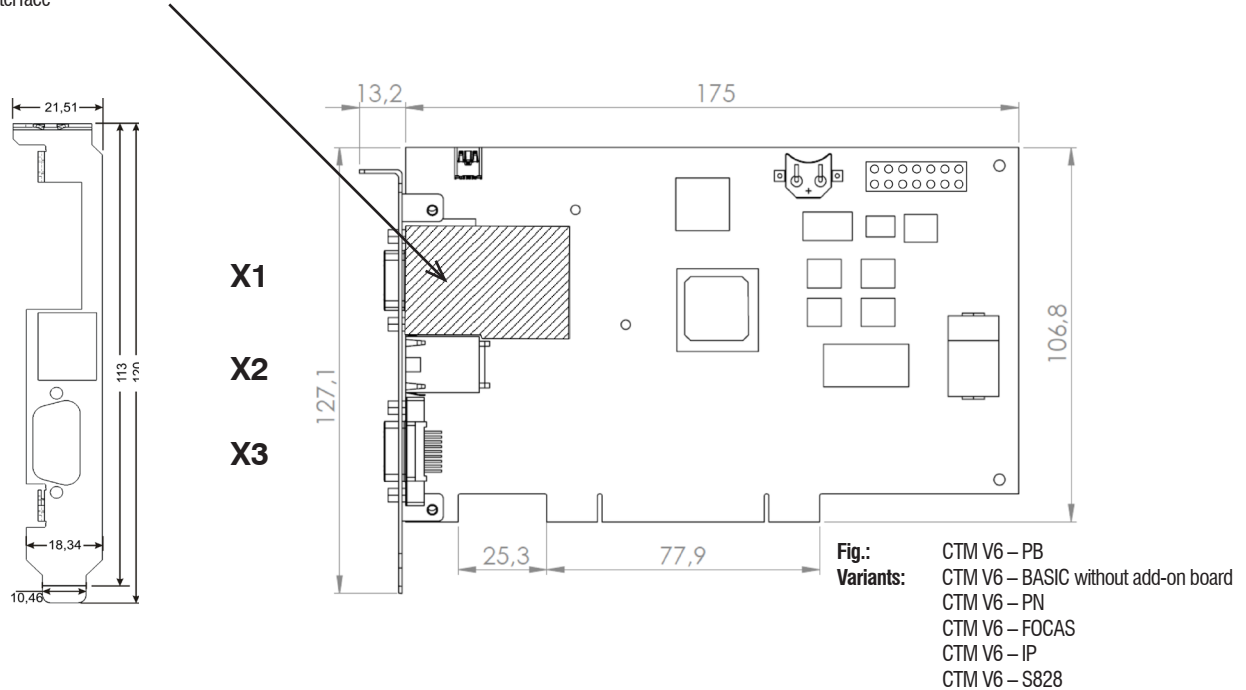|	
AC ADAPTIVE CONTROL **	Feed control for constant load and reduction of cycle times
OPTIMIZATION OF TOOL LIFE	By means of wear monitoring*

Legend:
*   optional additional features
**   available with PROFIBUS, PROFINET, FOCAS, ETHERNET IP
*** optimal functional reliability depends on CPU- and network load

Add-on board:
e.g. PROFIBUS
interface

21,51

113
120

18,34

10,46

13,2

175

X1

X2

X3

127,1

106,8

25,3

77,9

Fig.: CTM V6 – PB
Variants: CTM V6 – BASIC without add-on board
CTM V6 – PN
CTM V6 – FOCAS
CTM V6 – IP
CTM V6 – S828

	CTM**V6**XX		
DIMENSIONS	Euro format PCI card 110 x 180 mm		
WEIGHT(KG)	BASIC 0,141	PB 0,160	
	FOCAS, IP, PN, S828 0,172		
OPERATING TEMPERATURE	0 ...+55 ℃		
CURRENT CONSUMPTION	850 mA (nominal 5 V)		
HIGH STARTING CURRENT	up to 3 A (max. 3 ms)		
SAVING OF PROCESS DATA	1 GB for recording 4h/channel overall monitoring time, learn cuts included		
INTERFACES X2	Ethernet TCP/IP (visualization)		
X3	ARTIS sensor bus ASB		
X4	4 x dign-IN, 4 x dig.-OUT via CTM BX-2-IO		
SYTEM REQUIREMENTS	**Note!** High CPU load or network overload might influence the function of the software. For optimal functional reliability, close all unsused applications and – if applicable – use a separate network.		
PCI SLOT	1 free PCI slot		
WINDOWS OP. SYSTEM (other operating systems upon request)	WIN XP (SP3) / WIN7 / WIN8 / WIN10 (32/64 bit)		

FREE MEMORY SPACE	> 100 MB
CONFORMITY	CE, UKCA
	Interface variants
	CTM V6 – BASIC
CODE	O830Z410007
FIELDBUS CONNECTION X1	none
	CTM V6 – PB
CODE	O830Z410008
FIELDBUS CONNECTION X1	PROFIBUS
	CTM V6 – PN
CODE	O830Z410016
FIELDBUS CONNECTION X1	PROFINET
	CTM V6 – FOCAS
CODE	O830Z410018
FIELDBUS CONNECTION X1	FOCAS
	CTM V6 – IP
CODE	O830Z410009
FIELDBUS CONNECTION X1	ETHERNET IP
	CTM V6 – S828
CODE	O830Z410021
FIELDBUS CONNECTION X1	S828-PROFINET

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