SIEMENS

Show actual product details

Data sheet 6AT8002-1AA00

SIPLUS CMS2000 - BASIC UNIT VIB; 2 IEPE VIBRATION ACCELERATION CHANNELS; 2 ANALOGE INPUTS FOR PROCESS VALUES; 1 DIGITAL INPUT FOR ROTATION SPEED MEASUREMENT; 3 DIGITAL OUTPUTS FOR SYSTEM- AND LIMIT MONITORING

General information	
Product brand name	SIPLUS
Product designation	SIPLUS CMS2000 Basic Unit VIB
Product description	Basic unit for the monitoring of vibrations on mechanical components based on parameters and frequency-selective analysis functions for measuring category 0 acc. to EN 61010
Physical measuring principle	Vibration acceleration
Measurement range vibration frequency, min.	2 Hz
Measurement range vibration frequency, max.	10 000 Hz

Installation type/mounting	
Mounting type	standard rail
Mounting position	vertical
Recommended mounting position	vertical

Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V

Subject to change without notice
© Copyright Siemens AG

Memory	
Total memory capacity	1 Gbyte
Hardware configuration	
Design of hardware configuration	modular construction, basic unit can be expanded by means of expansion modules
Digital inputs	
Number of disable inputs	1
Number of trigger inputs	1
Input voltage	
• At the 24 V DC disable input	Yes
• At the disable input (DC), max.	28.8 V
• At the trigger input 24 V DC	Yes
• At the trigger input (DC), max.	28.8 V
Digital outputs	
Number of signaling outputs	3
Design of signaling outputs	Electronic
Output current	
• For signaling output, max.	0.1 A
Analog inputs	
Number of analog inputs	2
Input ranges (rated values), voltages	
• At DC, min.	-10 V
Input ranges (rated values), currents	
• 0 to 20 mA	No
• +/- 4 mA to +/- 20 mA	Yes
Speed input	
Number of speed inputs	1
Protocols	
• 24 V DC digital	Yes
• At DC, max.	28.8 V
• -10 V to +10 V	No
Protocols	
• 0 to 20 mA	No
• 4 mA to 20 mA	No
• permissible range, upper limit	0.1 A
• Short-circuit current	0.7 A
Sensor input	
Number of IEPE sensor inputs	2
Number of MEMS sensor inputs	0
Sampling frequency, max.	46 875 Hz

Subject to change without notice
© Copyright Siemens AG

Interfaces	
Type of data transmission	Exporting of raw data as WAV file for further analyses (e.g. using CMS X-Tools) can be downloaded via browser
Ethernet interface	Yes
SIMOCODE interface	Yes

Protocols	
Bus communication	Yes
Open IE communication	
• TCP/IP	Yes
Web server	
• HTTP	Yes

Interrupts/diagnostics/status information	
Diagnostics via e-mail	Yes

Integrated Functions	
Monitoring functions	
• Monitoring of the sensor inputs	Yes
• Vibration characteristic monitoring via RMS value of the vibration speed	Yes
• Vibration characteristic monitoring via diagnostic characteristic value	Yes
• Frequency-selective monitoring via vibration speed spectrum	Yes
• Frequency-selective monitoring via vibration acceleration spectrum	Yes
• Frequency-selective monitoring via envelope curve analysis	Yes

Isolation	
Overvoltage category	II

Degree and class of protection	
IP degree of protection	IP20

Standards, approvals, certificates	
Certificate of suitability	CE, UL 508, CSA C22.2 Nr.142, C-TICK (RCM)
CE mark	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
China RoHS compliance	Yes
Degree of pollution	2
Equipment marking according to EN 61346-2	P

© Copyright Siemens AG

Equipment marking according to DIN 40719, expanded according to IEC 204-2, according to IEC 750	P

Ambient conditions	
Ambient temperature during operation	
• min.	-20 °C
• max.	65 °C
Ambient temperature during storage/transportation	
• Storage, min.	-25 °C
• Storage, max.	85 °C
• Transportation, min.	-25 °C
• Transportation, max.	85 °C
Air pressure acc. to IEC 60068-2-13	
• Installation altitude above sea level, max.	1 500 m
Relative humidity	
• Operation without condensation, min.	5 %
• Operation without condensation, max.	95 %

Software	
Browser software required	Webbrowser Mozilla Firefox, Google Chrome or Microsoft Internet Explorer

Connection method	
Design of electrical connection for the inputs and outputs	Screw connection
Design of electrical connection for auxiliary and control circuit	Screw connection
• Connectable conductor cross-section, solid or stranded, min.	0.5 mm²
• Connectable conductor cross-section, solid or stranded, max.	4 mm²
• Connectable conductor cross-section, finely stranded with end sleeve, min.	0.5 mm²
• Connectable conductor cross-section, finely stranded with end sleeve, max.	2.5 mm²
• Connectable cable cross-section finely stranded without end sleeve, min.	0.5 mm²
• Connectable cable cross-section finely stranded without end sleeve, max.	2.5 mm²
Terminals	
• Removable terminal for main circuit	Yes
• Removable terminal for auxiliary and control circuit	Yes

Mechanics/material

Subject to change without notice
© Copyright Siemens AG

Material of housing	plastic

Dimensions	
Width	45 mm
Height	106 mm
Depth	124 mm

Weights	
Weight	300 g

last modified:	10/28/2016

Subject to change without notice
© Copyright Siemens AG