SIEMENS

Data sheet

6AT8007-1AA10-0AA0

SIPLUS CMS1200 SM1281 Condition monitoring for SIMATIC S7-1200 "4 IEPE vibration channels;" 1 digital input for rotational speed acquisition



General information	
Product brand name	SIPLUS
Product category	Condition Monitoring
Product description	S7-1200 module for the monitoring of vibrations on mechanical
	components based on parameters and frequency-selective analysis functions
Installation type/mounting	
Mounting type	Rail or wall mounting
Mounting position	Horizontal, vertical
Recommended mounting position	Horizontal
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	
• 24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption, typ.	200 mA

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Current consumption, max.	250 mA
from backplane bus 5 V DC, typ.	80 mA
from backplane bus 5 V DC, max.	85 mA
Power loss	
Power loss, typ.	4.8 W
Memory	
Total memory capacity	1 Gbyte
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Hardware configuration	
Design of hardware configuration	Modular, up to 7 modules per CPU
Speed input	
Number of speed inputs	1
Input voltage	
• 24 V DC digital	Yes
Sensor input	
Number of IEPE sensor inputs	4
Sampling frequency, max.	46 875 Hz
Interfaces	
Type of data transmission	Export of raw data as WAV file for further analysis (e.g. using CMS X-Tools) can be downloaded via browser/FTP, online data transfer to CMS X-Tools
Ethernet interface	Yes
Protocols	
Bus communication	Yes
Web server	
• HTTP	Yes
Interrupts/diagnostics/status information	
Interrupts/diagnostics/status information Alarms	
Diagnostic alarm	Yes
Diagnostics indication LED	
• for status of the inputs	Yes
• for maintenance	Yes
Status indicator digital input (green)	No
Status indicator digital input (green)	140
Integrated Functions	
Monitoring functions	
 Monitoring of the sensor inputs 	Yes; Cable break and short-circuit
 Vibration characteristic monitoring via RMS value of the vibration speed 	Yes
 Vibration characteristic monitoring via RMS value of the vibration acceleration 	Yes

 Vibration characteristic monitoring via diagnostic characteristic value 	Yes
Frequency-selective monitoring via vibration	Yes
speed spectrum	
 Frequency-selective monitoring via vibration acceleration spectrum 	Yes
• Frequency-selective monitoring via envelope	Yes
curve analysis	
Measuring functions	
 Physical measuring principle 	Vibration acceleration
Measuring range	
 Measurement range vibration frequency, min. 	0.1 Hz
 Measurement range vibration frequency, 	10 000 Hz
max.	
Degree and class of protection	
Degree of protection acc. to EN 60529	
• IP20	Yes
Standards, approvals, certificates	
Certificate of suitability	CE
CE mark	Yes
UL approval	Yes
EAC (formerly Gost-R)	Yes
China RoHS compliance	Yes
Reference designation according to DIN EN 81346-2	Р
Ambient conditions	
Free fall	
● Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	
horizontal installation, min.	-20 °C
horizontal installation, max.	60 °C
vertical installation, min.	-20 °C
 vertical installation, max. 	45 °C
Ambient temperature during storage/transportation	
● min.	-40 °C
• max.	70 °C
Air pressure acc. to IEC 60068-2-13	
Operation, min.	795 hPa
Operation, max.	1 080 hPa
Storage/transport, min.	660 hPa
Storage/transport, max.	1 080 hPa
Relative humidity	

5 % • Operation without condensation, min. 95 % • Operation without condensation, max.

Web browser Mozilla Firefox (ESR31) or Microsoft Internet Browser software required Explorer (10/11) required front connector Yes Design of electrical connection Screw connection Mechanics/material Material of housing Plastic: polycarbonate, abbreviation: PC- GF 10 FR Enclosure material (front) Yes Plastic

Width 70 mm Height 112 mm Depth 75 mm

Weights Weight, approx. 260 g

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