SIEMENS

Data sheet

6AG1232-4HA30-5XB0

SIPLUS S7-1200 SB1232 1AO -40...+60°C start up -25°C with conformal coating based on 6ES7232-4HA30-0XB0 . ANALOG OUTPUT 1 AO, +/-10 V DC (12 bit resol.) or 0-20mA (11 bit resol.)



General information	
Product type designation	SB 1232, AQ 1x12 bit
Input current	
from backplane bus 5 V DC, typ.	15 mA
Output voltage	
Power supply to the transmitters	
Supply current, max.	25 mA
Power loss	
Power loss, typ.	1.5 W
Analog inputs	
Number of analog inputs	0
Analog outputs	
Number of analog outputs	1
Cycle time (all channels) max.	Voltage: 300 μ S (R), 750 μ S (1 uF) Current: 600 ms (1 mH); 2 ms (10 mH)
Output ranges, voltage	
• -10 V to +10 V	Yes

Output ranges, current	
• 0 to 20 mA	Yes
Load impedance (in rated range of output)	
with voltage outputs, min.	1 000 Ω
with current outputs, max.	600 Ω
Cable length	
• shielded, max.	10 m; shielded, twisted pair
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Analog value generation for the outputs	
Conversion principle	Differential
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), 	12 bit
max.	
Errors/accuracies	
Temperature error (relative to output range), (+/-)	25 °C ±0.5 %, up to 55 °C ±1.8 %
Interrupts/diagnostics/status information	
Alarms	Yes
Diagnostics function	Yes
Diagnostics indication LED	
• for status of the outputs	Yes
Ambient conditions	
Free fall	
● Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	
● min.	-40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C
• max.	60 °C; = Tmax
Ambient temperature during storage/transportation	
● min.	-40 °C
• max.	70 °C
Altitude during operation relating to sea level	
Installation altitude above sea level, max.	5 000 m
Ambient air temperature-barometric pressure-	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) //
altitude	Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500
	m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5
21.0	000 m)
Relative humidity	400 W. Dilliant condens ii " " t
 With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	
Coolants and lubricants	
 Resistant to commercially available coolants and lubricants 	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems	

 to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
 to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class
 to biologically active substances according to EN 60721-3-6 	6B3 on request
 to chemically active substances according to EN 60721-3-6 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)
— Environmental conditions for process,	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4
measuring and control systems acc. to ANSI/ISA-71.04	permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
Note regarding classification of	* The supplied plug covers must remain in place over the unused
environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04	interfaces during operation!
Conformal coating	
 Coatings for printed circuit board assemblies acc. to EN 61086 	Yes; Class 2 for high availability
 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection
 Military testing according to MIL-I-46058C, Amendment 7 	Yes; Discoloration of coating possible during service life
 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A 	Yes; Conformal coating, Class A
Mechanics/material	
Enclosure material (front)	
● Plastic	Yes
Dimensions	
Width	38 mm
Height	62 mm
Depth	21 mm
Weights	
Weight, approx.	40 g
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