

SIMATIC S7-1200

SIPLUS analog modules

SIPLUS SM 1234 analog input/output modules

Overview



- Analog inputs and outputs for SIPLUS S7-1200
- With extremely short conversion times
- For connecting analog actuators and sensors without additional amplifiers
- Even solves more complex automation tasks
- From +60 °C to +70 °C, max. 50% of the inputs and outputs can be controlled simultaneously

Note:

SIPLUS extreme products are based on Siemens Industry standard products. The contents listed here were taken from the respective standard products. SIPLUS extreme-specific information was added.

Technical specifications

The technical data correspond to those of the based-on modules apart from the values listed in the table.

	6AG1234-4HE32-2XB0	6AG1234-4HE32-4XB0
	SM 1234 A I4x13 bit AQ 2x14 bit	SM 1234 A I4x13 bit AQ 2x14 bit
Based on	6ES7234-4HE32-0XB0	6ES7234-4HE32-0XB0
Ambient conditions		
Extended ambient conditions		
• Relative to ambient temperature-atmospheric pressure-installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)	
• Relative humidity		
- With condensation, tested in accordance with IEC 60068-2-38, maximum	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)	
• Resistance		
- to biologically active substances/conformity with EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!	
- to chemically active substances/conformity with EN 60721-3-3	Yes; Class 3C4 (RH < 75%) incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!	
- to mechanically active substances/conformity with EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!	

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Based on	6ES7234-4HE32-0XB0	6ES7234-4HE32-0XB0
Climatic and mechanical conditions for storage and transport		
Climatic conditions for storage and transport		
• Free fall	0.3 m; five times, in dispatch package	
- Drop height, max. (in packaging)		
• Temperature		
- Permissible temperature range	-40 °C to +70 °C	
Mechanical and climatic conditions during operation		
Climatic conditions in operation		
• Temperature		
- Min.	-40 °C; = Tmin; startup @ -25 °C	-20 °C; = Tmin; startup @ 0 °C
- max.	70 °C; = Tmax; Tmax > +60 °C number of simultaneously used outputs 1, inputs 2 (no adjacent points) for horizontal mounting position	60 °C; = Tmax

Ordering data

Article No.

SIPLUS SM 1234 analog input/output signal modules

(extended temperature range and medial exposure)

Ambient temperature range

-25 ... +70 °C,
from +60 ... +70 °C number of simultaneously controllable inputs and outputs max. 50%

4 analog inputs, ±10 V, ±5 V, ±2.5 V, or 0 ... 20 mA, 12 bits + sign;
2 analog outputs, ±10 V with 14 bits or 0 ... 20 mA with 13 bits

6AG1234-4HE32-2XB0

Ambient temperature range

0 ... +55 °C
4 analog inputs, ±10 V, ±5 V, ±2.5 V, or 0 ... 20 mA, 12 bits + sign;
2 analog outputs, ±10 V with 14 bits or 0 ... 20 mA with 13 bits

6AG1234-4HE32-4XB0

Accessories

See SIMATIC S7-1200 SM 1234 analog input/output, catalog ST 70 · 2013, page 3/84