

SIMATIC S7-1200

SIPLUS analog modules

SIPLUS SM 1231 analog input modules

Overview



- Analog inputs 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 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.

Based on	
6AG1231-4HD32-4XB0 SM 1231 AI 4x13 bit	
6ES7231-4HD32-0XB0	
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	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
- With condensation, tested in accordance with IEC 60068-2-38, maximum	
• Resistance	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 biologically 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 chemically 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!
- to mechanically active substances/conformity with EN 60721-3-3	
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	-40 °C to +70 °C
- Permissible temperature range	
Mechanical and climatic conditions during operation	
Climatic conditions in operation	
• Temperature	-20 °C; = Tmin; startup @ 0 °C
- Min.	60 °C; = Tmax
- max.	

Ordering data

Article No.

SIPLUS SM 1231 analog input signal module

(extended temperature range and medial exposure)

Ambient temperature range
0 ... +55 °C

4 analog inputs ±10 V, ±5 V, ±2.5 V, or 0 ... 20 mA; 12 bits + sign

Accessories

6AG1231-4HD32-4XB0

See SIMATIC S7-1200 SM 1231 analog input, catalog ST 70 · 2013, page 3/74