

SIMATIC S7-300

SIPLUS S7-300 analog modules

SIPLUS S7-300 SM 331 analog input modules

Overview



- Analog inputs
- For connecting voltage sensors and current sensors, thermocouples, resistors and resistance thermometers

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	6AG1331-1KF02-7AB0 6ES7331-1KF02-0AB0	6AG1331-7KB02-2AB0 6ES7331-7KB02-0AB0	6AG1331-7KF02-2AB0 6ES7331-7KF02-0AB0
Ambient conditions Operating temperature			
• Min. • max.	-25 °C 70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM use	-25 °C; = Tmin 70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM use	-25 °C; = Tmin 70 °C; = Tmax; for use on railway vehicles according to EN50155, the rated temperature range -25 ... +55 °C (T1) or 60 °C @ UL/ULhaz/ATEX/FM use applies
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, maximum	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)		
• Resistance - to biologically active substances/conformity with EN 60721-3-3 - to chemically active substances/conformity with EN 60721-3-3 - to mechanically 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! 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! Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!		