

SIPLUS S7-300 EXTREME-ENVIRONMENT I/O

Product Data Sheet

6AG1331-7TF01-7AB0

SIPLUS SM 331 eight-channel analog input module

FUNCTION	FAMILY	ORIGIN	WEIGHT
SIPLUS SM 331 eight-channel analog	SIPLUS S7-300 extreme-environment I/O	Germany	Confirm before dispatch

Siemens Simatic S7 6AG1331-7TF01-7AB0 is a SIPLUS SM 331 eight-channel analog input module for the SIPLUS S7-300 extreme-environment I/O. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Exact Article Code	6AG1331-7TF01-7AB0
Product Class	Siplus Sm 331 Eight-Channel Analog Input Module
Product Family	SIPLUS S7-300 extreme-environment I/O
Analog Inputs	8 channels
Input Range	0/4 to 20 mA
Rated Load Voltage	24 V DC
Backplane Current	120 mA at 5 V DC
Power Loss	1.5 W typical
A/D Resolution	16 bit
Cycle Time	20 ms per module

Wire-Break Diagnostics	Enabled per channel
Environmental Range	–25 to +70 °C
Coating	Conformal coated

- Verify distillation control with Siplus Sm process control: During operation of the columns, reboilers and reflux circuits, 6AG1331-7TF01-7AB0 performs its assigned control role as a SIPLUS SM 331 eight-channel analog input module. During feed-composition change, the system uses this function to coordinate temperature, pressure and inventory loops, helping it maintain separation performance.
- Protect robotic joining during station restart: For the coordinated operation of the robots, fixtures and clamp groups, 6AG1331-7TF01-7AB0 supports the configured automation role as a SIPLUS SM 331 eight-channel analog input module. During station restart, the system uses this function to confirm tooling readiness before the cycle starts, helping it prevent an incomplete joining cycle.
- Supervise raw-water pumping with Siplus Sm process control: During operation of the intake pumps and wet wells, 6AG1331-7TF01-7AB0 handles its designated signal or control duty as a SIPLUS SM 331 eight-channel analog input module. During peak-flow demand, the system uses this function to coordinate pump duty and level response, helping it maintain hydraulic continuity.

Match 6AG1331-7TF01-7AB0 to the installed SIPLUS S7-300 extreme-environment I/O, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

[Siemens official product documentation and manufacturer catalog](#)

<https://mall.industry.siemens.com/mall/en/WW/Catalog/Product/6AG1331-7TF01-7AB0>

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