

SIMATIC S7-400 SIGNAL MODULES

Product Data Sheet

6ES7431-7KF00-0AB0

eight-channel analog input module

FUNCTION eight-channel analog input module	FAMILY SIMATIC S7-400 signal modules	ORIGIN Germany	WEIGHT Confirm before dispatch
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S7-400 6ES7431-7KF00-0AB0 is a eight-channel analog input module for the SIMATIC S7-400 signal modules. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Exact Article Code	6ES7431-7KF00-0AB0
Product Class	Eight-Channel Analog Input Module
Product Family	SIMATIC S7-400 signal modules
from backplane bus 5 V DC, max.	1 200 mA
Power loss, typ.	4.6 W
Number of analog inputs	8
permissible input voltage for voltage input (destruction limit), 35 V ; 35 V continuous, 75 V for max. 1 s (mark to space ratio 1:20)	
permissible input current for current input (destruction limit), 32 mA	
Input resistance (1 V to 5 V)	> 2 000 ohms
Input resistance (4 mA to 20 mA)	50 Ω

— for thermocouples	Type B, E, J, K, L, N, R, S, T, U
shielded, max.	200 m
Resolution with overrange (bit including sign), max.	16 bit
Basic conversion time (ms)	10 / 16,7 / 20 / 100
Integration time (ms)	2,5 / 16,7 / 20 / 100

- Reactors and control valve loops with eight-channel analog input: Process signal tasks ■ eight-channel analog input reactor temperature signal acquisition ■ eight-channel analog input control valve current command
- Dosing systems and pump controls with eight-channel analog input: Treatment signal tasks ■ eight-channel analog input dosing flow measurement input ■ eight-channel analog input pump speed reference output
- Boiler auxiliaries and valve loops with eight-channel analog input: Generation signal tasks ■ eight-channel analog input boiler temperature channel monitoring ■ eight-channel analog input auxiliary valve position command

Match 6ES7431-7KF00-0AB0 to the installed SIMATIC S7-400 signal modules, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

[Manufacturer official product documentation](#)

<https://support.industry.siemens.com/>

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