

SIMATIC S7-400

Product Data Sheet

6ES7431-1KF20-0AB0

SM 431 analog input module

FUNCTION SM 431 analog input module	FAMILY SIMATIC S7-400	ORIGIN Germany	WEIGHT 0.80 kg
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S7-400 6ES7431-1KF20-0AB0 is a SM 431 analog input module for the SIMATIC S7-400. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Power Loss	4.9 W
Permissible input voltage for voltage input (	18 V ; 18 V continuous, 75 V for 1 ms (mark to space ratio 1:20)
Interference voltage suppression for interfer	none / 400 / 60 / 50 Hz
Resolution	14 bit ; 14 / 14 / 14
Voltage, relative to input area	+/- 0,7 % ; +/-0.7% at +/-1 V; +/-0.9% at +/-10 V, 1 to 5 V
Analog Inputs	8
From load voltage L+ (without load), max.	200 mA ; for 8 connected, fully controlled 2-wire transmitters
Permissible input current for current input (	40 mA ; Permanent
Current, relative to input area	+/- 0,8 % ; at +/-20 mA, 4 to 20 mA
Impedance, relative to input area	+/- 1 %

ADDITIONAL PRODUCT DATA

Input resistance (-1 V to +1 V)	10 MΩ
Input resistance (-10 V to +10 V)	100 kΩ
Input resistance (-20 to +20 mA)	50 Ω
Input resistance (4 to 20 mA)	50 kΩ
Current	Yes

OFFICIAL APPLICATIONS

- Batch preparation and transfer areas: Process Control Systems
- Raw water intake and pumping stations: Plant Utility Systems
- Boiler feed and auxiliary plants: Equipment Monitoring Systems

SYSTEM COMPATIBILITY

Match 6ES7431-1KF20-0AB0 to the installed SIMATIC S7-400, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

OFFICIAL SOURCES

[Siemens official manufacturer documentation](#)

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

AMIKON PRODUCT SUPPORT

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