

SM 431 ANALOG INPUT MODULE

Product Data Sheet

6ES7431-1KF10-0AB0

eight-channel analog input module

FUNCTION eight-channel analog input module	FAMILY SM 431 analog input module	ORIGIN Germany	WEIGHT 0.788 kg
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S7-400 6ES7431-1KF10-0AB0 is a eight-channel analog input module for the SM 431 analog input module. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Article number	6ES7431-1KF10-0AB0
Rated value (DC)	24 V; Only required for supplying 2-wire transmitters
Reverse polarity protection	Yes
from load voltage L+ (without load), max.	200 mA; for 8 connected, fully controlled 2-wire transmitters
from backplane bus 5 V DC, max.	600 mA
Power loss, typ.	3.5 W
Number of analog inputs	8
For resistance measurement	4
permissible input voltage for voltage input (destruction limit),	18 V; 18 V continuous, 75 V for 1 ms (mark to space ratio 1:20)
permissible input current for current input (destruction limit),	40 mA; Permanent

ADDITIONAL PRODUCT DATA

Constant measurement current for resistance-type transmitters	4.67 mA
Input resistance (1 V to 5 V)	1 MΩ

OFFICIAL APPLICATIONS

- Press lines and robotic welding cells: Remote Station Systems
- Mill drives and furnace auxiliaries: Energy Management Systems
- Paper machine wet-end systems: Drive Coordination Systems

SYSTEM COMPATIBILITY

Match 6ES7431-1KF10-0AB0 to the installed SM 431 analog input module, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

OFFICIAL SOURCES

[Siemens official manufacturer documentation](#)

Local manufacturer PDF: 6ES7416-3ER05-0AB0.pdf

AMIKON PRODUCT SUPPORT

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