

SM 431 ANALOG INPUT MODULE

Product Data Sheet

6ES7431-7KF10-0AB0

isolated high-resolution analog input module

FUNCTION	FAMILY	ORIGIN	WEIGHT
isolated high-resolution analog input module	SM 431 analog input module	Germany	0.761 kg

Siemens Simatic S7 6ES7431-7KF10-0AB0 is a isolated high-resolution 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	6ES7431-7KF10-0AB0
from backplane bus 5 V DC, max.	650 mA
Power loss, typ.	3.3 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)	
Constant measurement current for resistance-type transmitter	1 mA
Voltage	No
Resistance thermometer	Yes
Input resistance (Ni 100)	> 10 000 ohms
shielded, max.	200 m; 50 m with thermocouples and input ranges ± 80 mV

ADDITIONAL PRODUCT DATA

Resolution with overrange (bit including sign), max.	16 bit
Basic conversion time (ms)	8 / 23 / 25 ms

OFFICIAL APPLICATIONS

- Filling and packaging production halls: Remote Station Systems
- Aeration and sludge treatment basins: Energy Management Systems
- Turbine lubrication and cooling skids: Drive Coordination Systems

SYSTEM COMPATIBILITY

Match 6ES7431-7KF10-0AB0 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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