

SIMATIC S7-400

Product Data Sheet

6ES7431-0HH00-0AB0

SM 431 16-channel analog input module

FUNCTION SM 431 16-channel analog input	FAMILY SIMATIC S7-400	ORIGIN Germany	WEIGHT 0.80 kg
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S7-400 6ES7431-0HH00-0AB0 is a SM 431 16-channel 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

Analog Inputs	16
Input Resolution	13 bits
Measurement Types	Voltage and current
Nominal Supply	24 V DC
Transducer Supply	50 mA maximum
Input Isolation	Non-isolated channels
Isolation Test	500 V DC bus to ground
Conversion Principle	Integrating
Interference Frequencies	50 / 60 Hz
Integration Time	50 / 60 ms

ADDITIONAL PRODUCT DATA

Voltage Ranges	$\pm 1\text{ V}$, $\pm 10\text{ V}$, 1 to 5 V
Current Ranges	$\pm 20\text{ mA}$, 4 to 20 mA
Current Input Limit	40 mA continuous
Two-wire Load	750 Ω maximum

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 6ES7431-0HH00-0AB0 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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