

SIMATIC S7-1500

Product Data Sheet

6ES7531-7MH00-0AB0

16-channel current input module

FUNCTION	FAMILY	ORIGIN	WEIGHT
16-channel current input module	SIMATIC S7-1500	Germany	0.40 kg

Siemens Simatic S7 6ES7531-7MH00-0AB0 is a 16-channel current input module for the SIMATIC S7-1500. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

25 Ω; Plus approx. 42 ohms for overvoltage protection by PTC	20 mA to +20 mA
Input ranges (rated values), currents	0 to 10 mA
accuracy 0.5%, 16 channels in groups of 16, common mode voltage 4 V	DC diagnostics, hardware interrupts; delivery including infeed element,
SIMATIC S7-1500, analog input module AI 16xI BA, 16-bit resolution	accuracy 0.5%, 16 channels in groups of 16, common mode voltage 4 V
for current measurement as 2-wire transducer	Yes; with external supply
frequency f1 in Hz	400 / 60 / 50 / 10 Hz
Interference voltage suppression for interference	frequency f1 in Hz
Temperature error (relative to input range), (+/-)	0.006 %/K
Resolution with overrange (bit including sign), max.	16 bit
interference < rated value of input range), min.	40 dB

ADDITIONAL PRODUCT DATA

Power loss, typ.	1.2 W
Current, relative to input range, (+/-)	0.5 %
for current measurement as 4-wire transducer	Yes
Common mode voltage, max.	4 V
for voltage measurement	No

OFFICIAL APPLICATIONS

- Reactor and separation instrumentation: Process equipment
- Boiler and turbine auxiliary instrumentation: Plant equipment
- Pumping and filtration instrumentation: Treatment equipment

SYSTEM COMPATIBILITY

Match 6ES7531-7MH00-0AB0 to the installed SIMATIC S7-1500, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

OFFICIAL SOURCES

[Siemens official product documentation](#)

Local official manufacturer PDF: 6ES7531-7MH00-0AB0.pdf

AMIKON PRODUCT SUPPORT

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