

AMIKON TECHNICAL INTELLIGENCE

Product Data Sheet

Siemens 6ES7288-3AT04-0AA0
SIMATIC S7-200 SMART SM AT04

MODULE	FUNCTION	CHANNELS	RESOLUTION
SM AT04	Thermocouple input	4 analog inputs	16 bit incl. sign

Siemens 6ES7288-3AT04-0AA0 is a SIMATIC S7-200 SMART SM AT04 analog input module for four thermocouple channels. It operates from a 24 V DC supply and provides 16-bit measurement resolution including sign.

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OFFICIAL PRODUCT PARAMETERS

Article Number	6ES7288-3AT04-0AA0
Product Designation	SM AT04, AI TC 4x16 bit
Analog Input Channels	4
Supported Input	Thermocouple
Resolution	16 bit including sign
Rated Supply	24 V DC
Permissible Supply	20.4 to 28.8 V DC
SM Bus Current	80 mA maximum
24 V DC Current	40 mA maximum
Power Dissipation	1.5 W
Dimensions	45 x 100 x 81 mm
Approximate Weight	0.125 kg

Source: Siemens SIMATIC S7-200 SMART System Manual V2.8, 08/2023, A5E03822230-AL, EM AT04 technical specifications and connector information.

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TECHNICAL SUMMARY

Product Family	SIMATIC S7-200 SMART
Module Role	Thermocouple analog input expansion
Cold-junction Error	+/-1.5 deg C
Maximum Sensor Cable	100 m
Maximum Wire Resistance	100 ohm
Diagnostics	Overflow, underflow, wire break, low voltage
Unused Inputs	Short or deactivate unused thermocouple channels
Configuration	STEP 7-Micro/WIN SMART
Commodity Code	85389091
Country of Origin	China

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DOCUMENT CONTROL

Use the current Siemens system manual, thermocouple selection tables, connector assignments, grounding rules, and project safety documentation. This Amikon reference does not replace controlled Siemens instructions.