SIMATIC S7-200 CN

Product Data Sheet

6ES7231-7PD22-0XA8

Thermocouple analog input module

ANALOG INPUTS	VOLTAGE INPUT SPAN	THERMOCOUPLE TYPES	INPUT RESOLUTION
4	**-80 to +80 mV**	**J/K/S/T/R/E/N**	**15 bits plus sign**

Siemens 6ES7231-7PD22-0XA8 is an EM 231 thermocouple expansion module for SIMATIC S7-200 CN controllers of the S7-22X generation. Its four analog input channels accept low-level millivolt signals and the listed thermocouple types, providing temperature values to the connected CPU.

01 TECHNICAL DATA

Analog inputs	4
Voltage input span	-80 to +80 mV
Thermocouple types	J/K/S/T/R/E/N
Input resolution	15 bits plus sign
Temperature resolution	0.1 °C / 0.1 °F
Power loss	1.8 W
Compatible CPU generation	S7-22X
Product approval	CE

02 ADDITIONAL PRODUCT DATA

The input span is ±80 mV and the temperature resolution is 0.1 °C or 0.1 °F. This CN variant carries CE approval and is intended for the specified S7-200 platform. It is separate from the S7-1200 SM 1231 range and does not provide RTD or current inputs.

03 PRODUCT FUNCTION

Use the EM 231 with a supported S7-22X CPU and allocate its four analog input channels in the S7-200 configuration. The 0XA8 CN article is not an S7-1200 expansion module despite similar thermocouple functionality.

04 SYSTEM COMPATIBILITY

Choose the connected thermocouple characteristic from J, K, S, T, R, E or N, or use the ±80 mV voltage span where appropriate. Maintain thermocouple polarity and compatible extension conductors at every field connection.

05 REFERENCE

Siemens 6ES7231-7PD22-0XA8 technical data and applicable product instructions

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