

SIMATIC ET 200PRO AI 4 TC HF

Product Data Sheet

6ES7144-4PF00-0AB0

Thermocouple Analog Input Module

ANALOG INPUT ALLOCATION	THERMOCOUPLE FAMILIES	VOLTAGE MEASUREMENT RANGE	NOMINAL LOAD VOLTAGE
4 thermocouple channels	B, E, J, K, L, N, R, S, T	-80 to +80 mV	24 V DC

Siemens 6ES7144-4PF00-0AB0 is the AI 4 TC High Feature thermocouple input module for SIMATIC ET 200pro. It measures four compatible temperature or millivolt signals in distributed automation projects.

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VERIFIED TECHNICAL DATA

Analog input allocation	4 thermocouple channels
Thermocouple families	B, E, J, K, L, N, R, S, T
Voltage measurement range	-80 to +80 mV
Nominal load voltage	24 V DC
Typical supply / backplane currents	34 mA at 1L+; 20 mA at 3.3 V
Typical power loss	0.7 W
Input resistance	10 Mohm
Destruction voltage limit	20 V maximum
Maximum shielded signal cable	30 m
Input address allocation	8 bytes

ADDITIONAL PRODUCT DATA

Conversion resolution	15 bits plus sign
Integration time selection	2.5 / 16.67 / 20 / 100 ms
Channel conversion times	4.7 / 19 / 22 / 102 ms
Linearity error	±0.01% of input range
Isolation test voltage	707 V DC

DOCUMENTED USE SETTINGS

Metal Processing and Rolling Production: Steel Rolling Process Control.

Food Processing and Beverage Production: Food Processing and Production.

Chemical Manufacturing and Continuous Process Automation: Chemical Production Process Automation.

SYSTEM COMPATIBILITY

Integrate 6ES7144-4PF00-0AB0 only in the documented SIMATIC ET 200pro AI 4 TC HF configuration. Match the installed interfaces and the engineered application before selecting this thermocouple analog input module.

PRODUCT EVIDENCE

Siemens technical documentation for 6ES7144-4PF00-0AB0

AMIKON PRODUCT SUPPORT

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