SIMATIC ET 200S 4AI TC ST

Product Data Sheet

6ES7134-4JD00-0AB0

Four-channel thermocouple input module

INPUT CHANNELS	INPUT PRINCIPLE	CONVERSION RESOLUTION	MAXIMUM SHIELDED CABLE
Four	**Integrating analog conversion**	**15 bits plus sign**	**50 m**

Siemens 6ES7134-4JD00-0AB0 is the four-channel 4AI TC ST thermocouple input module for SIMATIC ET 200S. It converts thermocouple and millivolt signals using an integrating converter with 15-bit resolution plus sign, occupying eight input bytes in the station.

01 TECHNICAL DATA

Input channels	Four
Input principle	Integrating analog conversion
Conversion resolution	15 bits plus sign
Maximum shielded cable	50 m
Parameter data	7 bytes
Input address space	8 bytes
Rated load supply	24 V DC from power module
Maximum load-supply current	30 mA
Typical dissipation	0.6 W
Channel-to-channel isolation	None

02 ADDITIONAL PRODUCT DATA

Channel-to-backplane isolation	Yes
Insulation test voltage	500 V DC
Cold-junction compensation	External compensation; no internal reference junction
Basic conversion time	55 ms at 60 Hz; 65 ms at 50 Hz
Input impedance	At least 1 Mohm

03 PRODUCT FUNCTION

The 15 mm-wide module takes its 24 V DC load supply from the power module and consumes up to 30 mA. Its inputs are isolated from the backplane and load supply but share their channel potential. Cold-junction compensation is external, using a compensation box or a configured reference-temperature value from the station.

04 SYSTEM COMPATIBILITY

Install the electronic module on a compatible 15 mm terminal module and follow the channel polarity and shielding diagram. Limit shielded sensor cable to 50 m and keep the permitted common-mode potential within the manual limits; the channels are not mutually isolated.

05 REFERENCE

Siemens Analog electronic module 4AI TC ST (6ES7134-4JD00-0AB0), A5E02515312-01, October 2009

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