

AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7134-4JB00-0AB0

Standard Thermocouple Input Module



INPUTS	TC TYPES	VOLTAGE	COMPENSATION
2 TC / mV	9 types	±80 mV	External

Siemens 6ES7134-4JB00-0AB0 is a two-channel Standard thermocouple input module for SIMATIC ET 200S. It measures nine documented thermocouple types or ±80 mV signals, with characteristic linearization and 15-bit resolution plus sign. The module uses an external reference-junction compensation arrangement when required.

01

VERIFIED TECHNICAL INFORMATION

Analog input channels	2 for thermocouples or millivolt signals
Thermocouple types	B, E, J, K, L, N, R, S and T with characteristic linearization
Voltage measuring range	±80 mV
Resolution	15 bits plus sign, including overrange
Input resistance	Minimum 1 Mohm
Input address allocation	4 bytes
Rated load supply	24 V DC from power module; reverse-polarity protection

Manufacturer evidence: SIMATIC ET 200S Distributed I/O System; exact-model manual section and manufacturer data sheet.

02 TECHNICAL INFORMATION CONTINUED

Load-supply current consumption	Maximum 30 mA
Power dissipation	Typically 0.6 W
Conversion time	55 ms/channel at 60 Hz or 65 ms/channel at 50 Hz; wire-break testing adds 20 ms
Digital smoothing	Time constants of 1, 4, 32 or 64 module cycles
Cold-junction compensation	No internal compensation; external box or documented same-station RTD compensation
Electrical isolation	From backplane and load supply; not between channels
Common-mode limit	2 V AC peak-to-peak between inputs and MANA
Signal diagnostics	Group, overflow/underflow and thermocouple-only wire-break diagnostics; red SF LED

03 SOURCE AND CONFIGURATION CHECKS

Integrating conversion, configurable smoothing and readable diagnostics support temperature-signal acquisition. The module has no internal temperature compensation, and its channels are not individually isolated. Correct sensor polarity, reference potential and compensation configuration are therefore essential when installing or replacing it in an existing station.

Packed dimensions and supplied-unit origin must be checked against the actual delivery. No verified gross shipping weight is inferred from module net mass.

[Original Siemens documentation \(third-party-hosted copy\)](#)

AMIKON PRODUCT SUPPORT

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