AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7531-7QD00-0AB0

Four-channel universal analog input module

INPUTS	RTD INPUTS	RESOLUTION	WIDTH
4 U/I/TC	**2**	**16 bits**	**25 mm**

The Siemens 6ES7531-7QD00-0AB0 is an AI 4xU/I/RTD/TC ST analog input module for SIMATIC S7-1500 and ET 200MP. It provides four voltage, current or thermocouple inputs; resistance and RTD measurement use two channels. Conversion resolution is 16 bits including sign.

01 VERIFIED TECHNICAL INFORMATION

Analog input allocation	4 for U/I/TC; 2 for resistance or RTD
Conversion resolution	16 bits including sign
Module supply voltage	24 V DC nominal; verify supplied-unit operating range
Backplane power consumption	0.7 W
Typical power loss	2.3 W
Current measurement ranges	0-20 mA, 4-20 mA and +/-20 mA; wiring-dependent
Thermocouple types	B, E, J, K, N, R, S and T

Manufacturer evidence: AI 4xU/I/RTD/TC ST (6ES7531-7QD00-0AB0); exact-model manual section.

02 TECHNICAL INFORMATION CONTINUED

RTD types	Pt100/200/500/1000; Ni100/1000; LG-Ni1000
Selectable integration times	2.5, 16.67, 20 and 100 ms
Limit interrupts	Two high and two low limits per channel
Electrical isolation arrangement	No isolation between channels; isolated from backplane
Operating ambient temperature	0-60 C horizontal; 0-40 C vertical
Module dimensions (W x H x D)	25 x 147 x 129 mm

03 SOURCE AND CONFIGURATION CHECKS

Measurement type, input range and diagnostic settings are configured for the connected signals. The module supports configurable limit interrupts and multiple thermocouple compensation arrangements. Select the correct sensor wiring, reference potential and engineering configuration; the four inputs do not provide individual channel-to-channel electrical isolation.

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

Siemens original documentation and product reference

AMIKON PRODUCT SUPPORT

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