AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7231-4HA30-0XB0

Single-channel analog input board

INPUT	VOLTAGE	CURRENT	RESOLUTION
1 differential	**+/-10, 5, 2.5 V**	**0 to 20 mA**	**11 bits + sign**

The Siemens 6ES7231-4HA30-0XB0 is an SB 1231 signal board for one differential voltage or current input. It provides selectable bipolar voltage ranges and a 0 to 20 mA range, with eleven magnitude bits plus a sign bit in the cited manufacturer reference.

01 VERIFIED TECHNICAL INFORMATION

Analog input channels	1; differential voltage or current
Voltage measurement ranges	+/-10 V, +/-5 V and +/-2.5 V
Current measurement range	0 to 20 mA
Conversion resolution	11 bits plus sign bit
5 V bus consumption	55 mA
Power dissipation	0.4 W
Measurement smoothing	None, weak, medium or strong

Manufacturer evidence: S7-1200 Programmable Controller System Manual; exact-model manual section.

02 TECHNICAL INFORMATION CONTINUED

Noise-rejection selections	400, 60, 50 or 10 Hz
Accuracy	+/-0.3% of full scale at 25 C; +/-0.6% over -20 to 60 C
Field-to-logic isolation	None
Signal cable length	Up to 100 m, twisted and shielded
Connector	Gold-plated X19 connector; exact terminal assignment required
Dimensions W x H x D	38 x 62 x 21 mm

03 SOURCE AND CONFIGURATION CHECKS

This compact board occupies the compatible CPU board position instead of adding a separate signal module. Measurement filtering, input wiring and the configured range must agree; current measurement uses the documented bridge between R and 0+, while voltage measurement follows the separate terminal arrangement.

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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