

SIMATIC S7-1200

Installation Instructions

6ES7231-4HA30-0XB0

SB 1231 Analog Input Signal Board

INPUT	VOLTAGE	CURRENT	RESOLUTION
1 differential	±10 V DC	0–20 mA	11 bit + sign

01 PRODUCT VERIFICATION

Article number	6ES7231-4HA30-0XB0
Product	SB 1231 Analog Input Signal Board
Family	SIMATIC S7-1200
Product type	SB 1231 AI 1x12 bit
Analog inputs	1 differential input
Voltage range	±10 V DC
Current range	0–20 mA
Resolution	11 bit plus sign

02 BEFORE INSTALLATION

- Power down the S7-1200 CPU and disconnect the field signal before installing or removing the signal board.
- Fit the board only in the designated signal-board position of a compatible S7-1200 CPU.

OFFICIAL INSTALLATION DRAWING

The selected Siemens source page is retained as the installation and wiring reference. Use the current controlled manual for final work.

• plastic		Yes	
Dimensions			
Width	38 mm		
Height	62 mm		
Depth	21 mm		
Weights			
Weight, approx.	35 g		
Classifications			
		Version	Classification
	eClass	16	27-24-22-01
	eClass	14	27-24-22-01
	eClass	12	27-24-22-01
	eClass	9.1	27-24-22-01
	eClass	9	27-24-22-01
	eClass	8	27-24-22-01
	eClass	7.1	27-24-22-01
	eClass	6	27-24-22-01
	ETIM	10	EC001420
	ETIM	9	EC001420
	ETIM	8	EC001420
	ETIM	7	EC001420
	IDEA	4	3562
	UNSPSC	15	32-15-17-05
Approvals / Certificates			
General Product Approval			
		Miscellaneous	Manufacturer Declaration
			Metrological Approval
General Product Approval		EMV	For use in hazardous locations
		Manufacturer Declaration	China RoHS
			
For use in hazardous locations		Maritime application	
	FM		Miscellaneous
			CCC-Ex
			
Maritime application			
		NK / Nippon Kaiji Kyokai	
			
			CCS (China Classification Society)

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04 INSTALLATION SEQUENCE

01

Power down the S7-1200 CPU and disconnect the field signal before installing or removing the signal board.

02

Fit the board only in the designated signal-board position of a compatible S7-1200 CPU.

03

Wire the differential channel for either voltage or current measurement and apply the specified shielded twisted-pair cable practice.

04

Configure the measuring type, range, integration, smoothing and diagnostics before applying the process signal.

05 OFFICIAL DOCUMENTATION

SIMATIC S7-1200 SB 1231 Technical Data (6ES7231-4HA30-0XB0)

[Open current Siemens manual](#)

[Open Siemens exact product record](#)

06 SUPPORT CONTACT

AMIKON PRODUCT SUPPORT

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