

SIMATIC S7-1200

Installation Instructions

6ES7231-5QD32-0XB0

SM 1231 thermocouple analog input module

01 CONFIRM THE EXACT PRODUCT

Manufacturer	Siemens
Order number	6ES7231-5QD32-0XB0
Product family	SIMATIC S7-1200
Product type	SM 1231 thermocouple analog input module
Dimensions	4.5 x 10.0 x 7.5 cm
Net weight	0.160 kg

02 BEFORE INSTALLATION

- Allow only qualified personnel familiar with the installed SIMATIC system to perform the work.
- Record the complete order number, existing wiring, connector positions and hardware configuration.
- Back up the controller program or hardware configuration where applicable.
- Isolate power using the approved site procedure and verify absence of hazardous voltage.
- Check supply, I/O type, firmware, mounting space, terminal arrangement and environmental limits.

03**MOUNTING AND CONNECTION**

- Mount the unit in the documented orientation with the required clearances.
- Transfer conductors one circuit at a time and preserve terminal numbering, polarity and shielding.
- Use only documented connectors, cable types and grounding arrangements.
- Recheck all power and signal wiring before energizing the system.

04**COMMISSIONING CHECKS**

- Verify the model label, mounting, connectors and protective grounding.
- Apply power under the approved procedure and check diagnostic indications.
- Confirm communications and every configured input or output channel.
- Test alarms, interlocks and fail-safe behavior before returning the machine to production.
- Record the installed hardware revision and test results for future maintenance.