

6ES7232-4HD32-0XB0

SIMATIC S7-1200 SM 1232 4-Channel Analog Output Module

CONTROLLED ENGINEERING COPY

Siemens 6ES7232-4HD32-0XB0 is a SIMATIC S7-1200 SM 1232 analog output module with four voltage or current outputs. It supports +/-10 V, 0-20 mA and 4-20 mA output ranges with channel diagnostics.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	6ES7232-4HD32-0XB0
Manufacturer	Siemens
System family	Siemens Simatic S7-1200
Record scope	Installation, application and verification

1

2

3

4

5

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



01 PRE-INSTALLATION PLAN

- 1

Confirm 6ES7232-4HD32-0XB0 and SM 1232 on the module label.
- 2

Place the controller and process in the approved maintenance state.
- 3

Record the station, slot, four channel assignments, modes, ranges and scaling.
- 4

Isolate 24 Vdc and every connected analog output loop before handling.
- 5

Verify the front connector, commons, shields, loads and terminal assignments.

MATCHED HARDWARE

- 6ES7232-4HD32-0XB0 with complete nameplate identity
- Matched host, slot or panel position
- Documented power and field interfaces
- Approved configuration and acceptance record

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	6ES7232-4HD32-0XB0 recorded
Physical interface	Installed power, signal and communication interfaces matched to the as-found record
Configuration	Approved hardware and controller configuration restored
Functional proof	Diagnostics and controlled functional response recorded

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Product type	SM 1232 analog output module
Host system	SIMATIC S7-1200
Analog outputs	4
Output types	Voltage or current per channel
Voltage range	+/-10 V
Current ranges	0-20 mA and 4-20 mA
Voltage resolution	14 bit
Current resolution	13 bit
Rated supply	24 V DC
24 V current consumption	45 mA typical
Backplane current	80 mA from 5 V DC bus
Power loss	1.5 W typical
Minimum voltage load	1000 ohm

RELATED PRODUCT PAGES

1 Siemens 6ES7215-1BG40-0XB0

2 Siemens 6ES7321-1BL00-0AA0

3 Siemens 6ES7414-2XG02-0AB0

4 Siemens 6ES7517-3HP00-0AB0

5 Siemens 6ES7153-2BA02-0XB0

6 Siemens 6ES7214-1AG40-0XB0

7 Siemens A5E45508681002

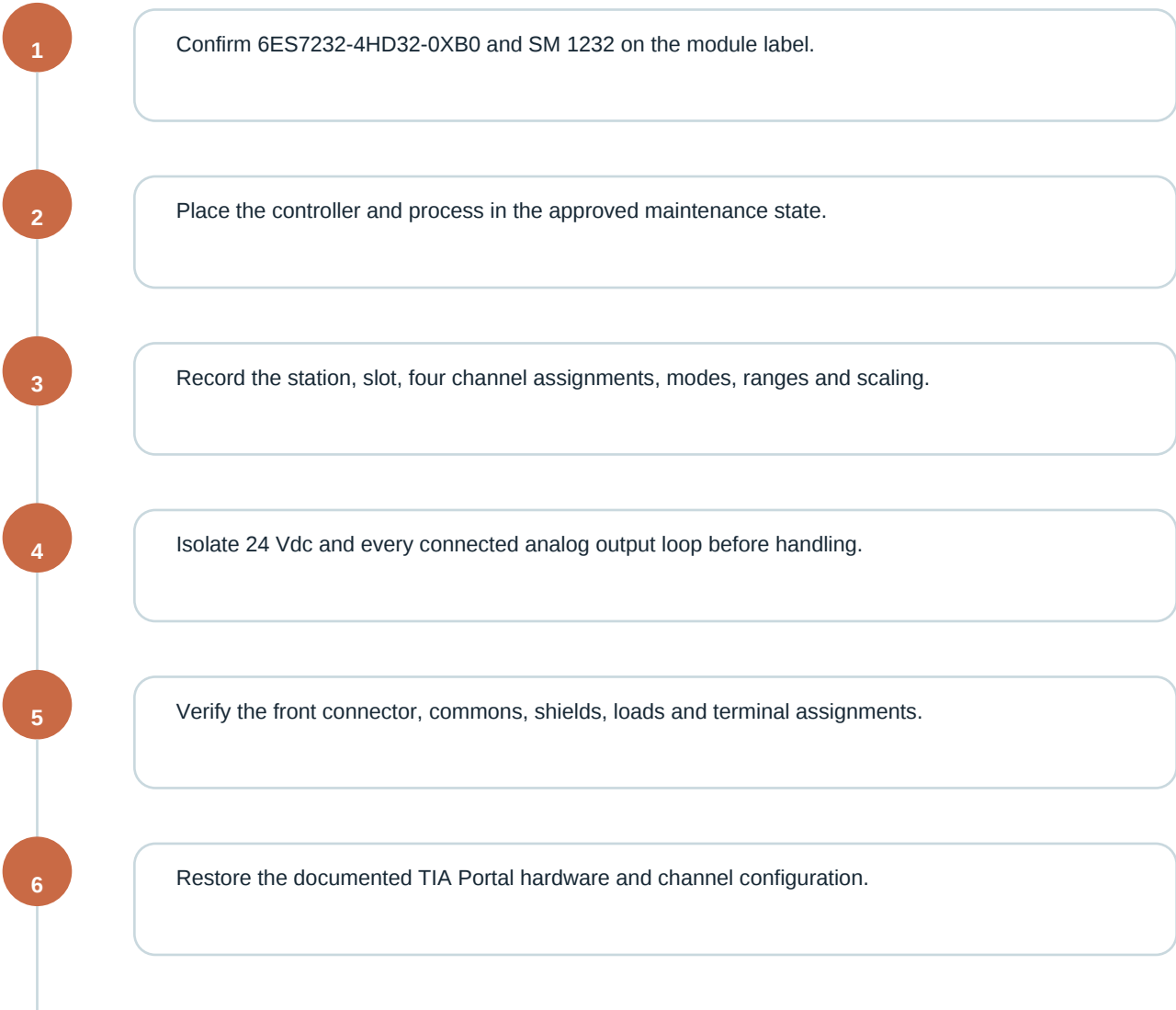
8 Siemens 6ES7223-1BL22-0XA0

9 Siemens 6ES7314-6BH04-0AB0

FIELD NOTE

Match 6ES7232-4HD32-0XB0 to the documented S7-1200 station, slot, 24 Vdc supply and four configured analog-output loops. Record each channel's voltage/current mode, scaling, load, wiring, diagnostics and TIA Portal parameters before removal, then verify all four outputs with controlled measurements.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	6ES7232-4HD32-0XB0
Physical interface	Installed power, signal and communication interfaces matched to the as-found record
Configuration	Approved hardware and controller configuration restored
Functional proof	Diagnostics and controlled functional response recorded

04 RETURN-TO-SERVICE RECORD

- ☐ Verify the front connector, commons, shields, loads and terminal assignments.
- ☐ Restore the documented TIA Portal hardware and channel configuration.
- ☐ Review supply, module and channel diagnostics after controlled energization.
- ☐ Measure all four commanded outputs and prove alarm and process response before release.

VERIFICATION RECORD

PRODUCT IDENTITY	6ES7232-4HD32-0XB0
INSTALLED POSITION	Documented automation-system position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

FUNCTIONAL ACCEPTANCE CHECKLIST

- ☐ Verify the front connector, commons, shields, loads and terminal assignments.
- ☐ Restore the documented TIA Portal hardware and channel configuration.
- ☐ Review supply, module and channel diagnostics after controlled energization.
- ☐ Measure all four commanded outputs and prove alarm and process response before release.

SOURCE IDENTIFIERS

SIMATIC S7-1200 SM 1232 Analog Output Module Product Data Sheet | Siemens Industry Online Support product data for 6ES7232-4HD32-0XB0 and SIMATIC S7-1200 Signal Module EPD