

6ES7232-4HD32-0XB0

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

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

PRODUCT SNAPSHOT

BRAND
Siemens

FAMILY
Siemens Simatic S7-1200

PART
6ES7232-4HD32-0XB0

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

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PRODUCT OVERVIEW

6ES7232-4HD32-0XB0 adds four configurable voltage or current outputs to a documented SIMATIC S7-1200 station.



Four analog output channels



+/-10 V voltage output



0-20 mA and 4-20 mA current output



Integrated channel and supply diagnostics

RELATED APTER POWER PAGES		
1 Siemens 6ES7414-2XG02-0AB0	2 Siemens 6ES7517-3HP00-0AB0	3 Siemens 6ES7153-2BA02-0XB0
4 Siemens 6ES7214-1AG40-0XB0	5 Siemens A5E45508681002	6 Siemens 6ES7223-1BL22-0XA0
7 Siemens 6ES7314-6BH04-0AB0	8 Siemens 6ES7215-1BG40-0XB0	9 Siemens 6ES7321-1BL00-0AA0

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
6ES7232-4HD32-0XB0 exact execution	Matched S7-1200 CPU and documented module slot
Front connector, 24 Vdc supply, commons and shields	Four configured voltage or current field circuits

ENGINEERING CONTEXT

The module must remain matched to the installed CPU, slot, front connector, 24 Vdc supply, channel wiring, loads and TIA Portal hardware configuration. Commissioning restores channel ranges and scaling before controlled output and alarm-response testing.

TECHNICAL DATA

PARAMETER	VALUE	PARAMETER	VALUE
Product type	SM 1232 analog output module	24 V current consumption	45 mA typical
Host system	SIMATIC S7-1200	Backplane current	80 mA from 5 V DC bus
Analog outputs	4	Power loss	1.5 W typical
Output types	Voltage or current per channel	Minimum voltage load	1000 ohm
Voltage range	+/-10 V	Maximum current load	600 ohm
Current ranges	0-20 mA and 4-20 mA	Shielded cable length	100 m maximum, twisted pair
Voltage resolution	14 bit	Diagnostics	Supply-voltage monitoring and wire-break diagnostics
Current resolution	13 bit	Operating temperature	-20 to +60 deg C horizontal; -20 to +50 deg C vertical
Rated supply	24 V DC	Relative humidity	Up to 95%, non-condensing

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TECHNICAL 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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Process setpoint output

Sends documented analog commands to field equipment.

Valve or drive reference

Provides configured current or voltage references.

S7-1200 machine control

Adds four analog outputs to an approved station.

Module replacement

Restores exact slot, wiring, ranges and TIA Portal configuration.

PRODUCT PRECAUTIONS

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.

6

Restore the documented TIA Portal hardware and channel configuration.

7

Review supply, module and channel diagnostics after controlled energization.

8

Measure all four commanded outputs and prove alarm and process response before release.

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ENGINEER FAQ

Q1 How is the exact 6ES7232-4HD32-0XB0 execution identified?

Match 6ES7232-4HD32-0XB0 and SM 1232 on the module label; do not substitute a nearby channel-count or signal-module execution.

Q2 What documented function does 6ES7232-4HD32-0XB0 perform?

It provides four configurable analog outputs for voltage or current signals in a SIMATIC S7-1200 station.

Q3 Which installed system must be matched before fitting 6ES7232-4HD32-0XB0?

Match the documented S7-1200 CPU, rack position, front connector, 24 Vdc supply, four field loops and TIA Portal project.

Q4 Which interfaces must be recorded for 6ES7232-4HD32-0XB0?

Record supply, commons, shields, terminal assignments, channel modes, ranges, scaling, loads and diagnostic settings.

Q5 What handling controls apply to 6ES7232-4HD32-0XB0?

Place the controller and process in a safe maintenance state, isolate 24 Vdc and all connected output loops, and use ESD controls.

Q6 What must be restored after installing 6ES7232-4HD32-0XB0?

Restore the exact slot, hardware configuration, channel ranges, scaling, substitute behavior, diagnostics and field wiring.

Q7 What evidence confirms 6ES7232-4HD32-0XB0 is ready for service?

Review supply, module and channel diagnostics, then measure every commanded voltage/current output and confirm the intended process response.

Q8 Which manufacturer record supports the 6ES7232-4HD32-0XB0 page?

The Siemens product data sheet for 6ES7232-4HD32-0XB0 and Siemens SIMATIC S7-1200 signal-module documentation support this page.

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SOURCE 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
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