

INDUSTRIAL AUTOMATION PRODUCT

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 diagnostics.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	Siemens Simatic S7-1200
Part number	6ES7232-4HD32-0XB0
Document status	Controlled product and system reference

DOCUMENT SCOPE

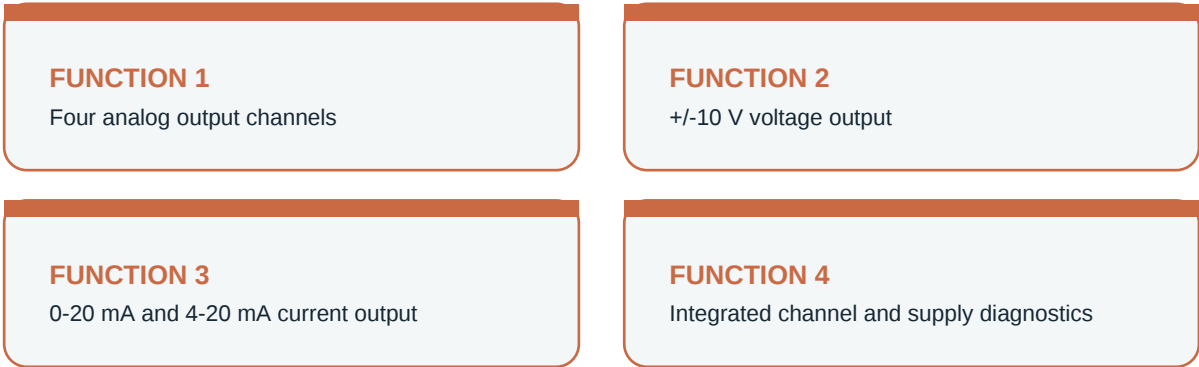
Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING 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.

System Role and Architecture

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.



RELATED APTER POWER PAGES		
1	Siemens 6ES7223-1BL22-0XA0	2
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9	Siemens A5E45508681002	

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	Siemens Simatic S7-1200
02	Matched S7-1200 CPU and documented module slot
03	Front connector, 24 Vdc supply, commons and shields
04	Four configured voltage or current field circuits

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Siemens Simatic S7-1200
Interface role	SIMATIC S7-1200 SM 1232 4-Channel Analog Output Module
Field / power context	24 Vdc supply, front connector and four configured analog-output loops
Commissioning evidence	Identity, configuration, diagnostics and controlled functional response recorded

INSTALLATION AND CONNECTION CHECKS

- 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.

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

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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7Siemens 6ES7153-2BA02-0XB0

8Siemens 6ES7214-1AG40-0XB0

9Siemens A5E45508681002

ENGINEERING BOUNDARY

Confirm 6ES7232-4HD32-0XB0, S7-1200 CPU and slot, 24 Vdc supply, front connector, four channel assignments, voltage/current modes, ranges, scaling, loads, shielding, diagnostics and controlled output-test evidence before commissioning.

PRE-INSTALLATION CHECKS

- 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.

Applications and Engineering Context

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.

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6ES7232-4HD32-0XB0 recorded
Host / carrier	Siemens Simatic S7-1200
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

IMPORTANT NOTICE

Confirm 6ES7232-4HD32-0XB0, S7-1200 CPU and slot, 24 Vdc supply, front connector, four channel assignments, voltage/current modes, ranges, scaling, loads, shielding, diagnostics and controlled output-test evidence before commissioning.

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

Siemens 6ES7223-1BL22-0XA0

View Siemens 6ES7223-1BL22-0XA0 page

2

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Siemens 6ES7321-1BL00-0AA0

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Siemens 6ES7414-2XG02-0AB0

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Siemens 6ES7517-3HP00-0AB0

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MANUFACTURER SOURCE RECORD

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

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RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.