

SIMATIC S7-400 SM 432 Analog Output Module

Siemens 6ES7432-1HF00-0AB0 is an isolated SIMATIC S7-400 SM 432 analog output module. It converts controller output data into eight voltage or current signals for analog field devices.

IDENTITY RECORD

MANUFACTURER Siemens	FAMILY SIMATIC S7-400
EXACT MODEL 6ES7432-1HF00-0AB0	PRIMARY DUTY Control-valve command loops

APTER POWER SALES TEAM

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REFERENCE PURPOSE

- 1 Establish the exact product identity and installed-system boundary.
- 2 Summarize manufacturer-supported technical data without transferring values from a similar model.
- 3 Provide a compact engineering path for selection, replacement and controlled commissioning.
- 4 Link verified related Apter Power product pages for adjacent family hardware.

TECHNICAL DATA

Analog outputs	8
Resolution	13 bit
Load voltage	24 Vdc
Backplane current at 5 Vdc	150 mA maximum
Power loss	9 W typical
Voltage ranges	0–10 V; 1–5 V; ±10 V
Current ranges	0–20 mA; ±20 mA; 4–20 mA
Shielded cable length	200 m maximum
Voltage load	1 kΩ minimum
Current load	500 Ω maximum
Conversion time	300 μs; 420 μs for 1–5 V and 4–20 mA

ENGINEERING NOTE

Set the channel measuring-range modules and STEP 7 hardware parameters to match the wired voltage or current loops before enabling outputs.

TECHNICAL VERIFICATION MATRIX

Identity control	Full model marking 6ES7432-1HF00-0AB0 and installed execution
Host-system boundary	SIMATIC S7-400

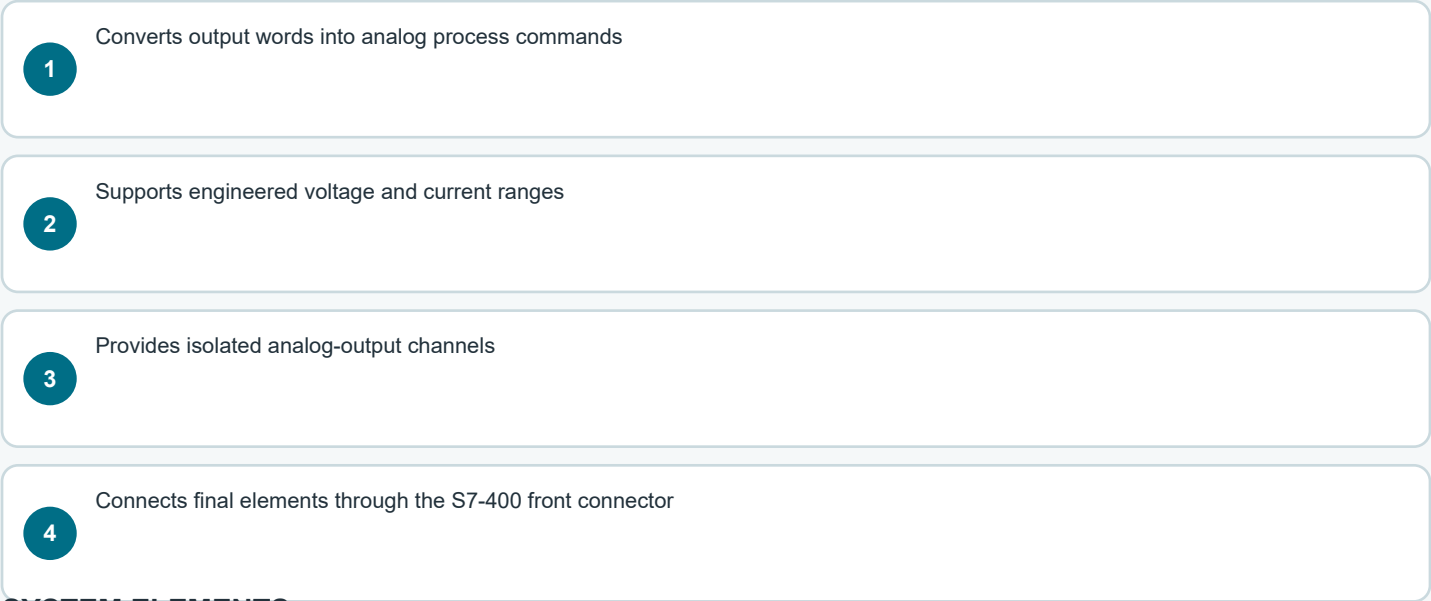
MANUFACTURER SOURCE RECORD

Siemens SIMATIC S7-400 Module Data | official technical datasheet for 6ES7432-1HF00-0AB0

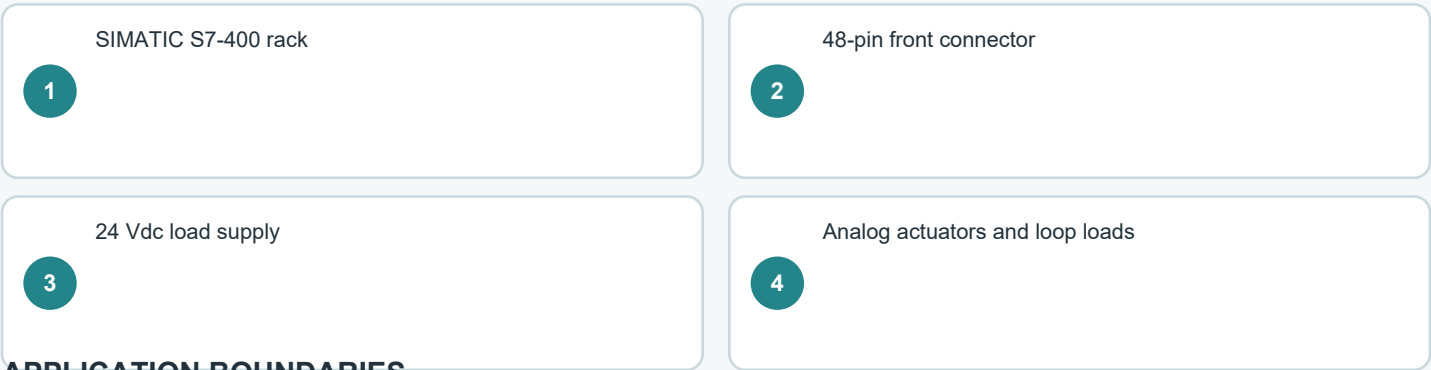
[Open official manufacturer source](#)

Functional path and compatible system elements

FUNCTIONAL PATH



SYSTEM ELEMENTS



APPLICATION BOUNDARIES

Control-valve command loops	Converts output words into analog process commands
Drive reference outputs	Supports engineered voltage and current ranges
Analog damper positioning	Provides isolated analog-output channels
Process setpoint distribution	Connects final elements through the S7-400 front connector

CONTROLLED WORK SEQUENCE

1

Verify the complete 6ES7432-1HF00-0AB0 marking, hardware execution and assigned SIMATIC S7-400 position.

2

Place the process in the approved maintenance state and isolate every applicable energy source.

3

Record as-found wiring, shields, jumpers, cable tags, slot identity and diagnostics before removing 6ES7432-1HF00-0AB0.

4

Use ESD controls and protect keyed connectors, terminals and assemblies while handling 6ES7432-1HF00-0AB0.

5

Confirm the installed SIMATIC S7-400 rack and 48-pin front connector against approved drawings and configuration records.

6

Inspect mating hardware, terminal condition, grounding and mechanical retention before installation.

7

Restore power or network service in controlled stages; confirm status indications before functional commands.

8

Complete a documented functional test for control-valve command loops and retain the as-left record.

DIAGNOSTIC DECISION GATE

If the expected response is absent, do not immediately transfer configuration or replace adjacent hardware. Recheck identity, seating, supply or network state, terminations, channel assignment and manufacturer diagnostics; then repeat the controlled test.

Related family pages, engineer FAQ and source record

Related SIMATIC S7-400 products on Apter Power

MODEL	SERIES / SYSTEM ROLE	APTER POWER PAGE
6ES7431-0HH00-0AB0	SIMATIC S7-400 analog input module	Open product page
6ES7422-1BL00-0AA0	SIMATIC S7-400 digital output module	Open product page
6ES7421-1BL01-0AA0	SIMATIC S7-400 digital input module	Open product page
6ES7407-0RA02-0AA0	SIMATIC S7-400 PS 407 power supply	Open product page
6ES7400-1JA11-0AA1	SIMATIC S7-400 universal rack	Open product page

ENGINEER FAQ

Q1	What must be matched before installation?	Match the full 6ES7432-1HF00-0AB0 marking, revision or execution, assigned position and installed companion hardware.
Q2	What should be isolated first?	Use the site's approved maintenance state and isolate the energy sources serving SIMATIC S7-400 rack and 48-pin front connector.
Q3	What as-found record is required?	Record terminal identity, polarity, shields, jumpers, cable tags, configuration and diagnostic status.
Q4	Which compatibility check is mandatory?	Compare the SIMATIC S7-400 slot, interface, companion hardware and wiring scheme with approved project documentation.
Q5	How should commissioning begin?	Begin with visual and continuity checks, then restore service in stages and observe normal status indications.
Q6	How should the assigned function be proved?	Use a controlled test for control-valve command loops while required interlocks and process safeguards remain effective.
Q7	What should be checked after an abnormal result?	Recheck seating, terminations, supply or network condition, channel assignment and manufacturer diagnostics before further replacement.
Q8	What evidence should be retained?	Retain the 6ES7432-1HF00-0AB0 identity, as-left wiring/configuration, final diagnostics and functional-test result.

MANUFACTURER SOURCE RECORD

Siemens SIMATIC S7-400 Module Data | official technical datasheet for 6ES7432-1HF00-0AB0

[Open official manufacturer source](#)