

SIMATIC S7-400 SM 432 Analog Output Module

Field workbook for exact-model verification, as-found recording, controlled installation and final functional acceptance.

WORK ORDER IDENTITY

Site / unit

Equipment tag

Drawing / loop reference

Technician / date

APTER POWER SALES TEAM

WHATSAPP / PHONE

EMAIL

WEBSITE

+86 180 3023 5313

sales13@apterpower.com

www.apterpower.com



MANDATORY MODEL GATE

- ☐ Physical label reads 6ES7432-1HF00-0AB0 in full.
- ☐ Assigned host platform is documented as SIMATIC S7-400.
- ☐ Installed companion hardware includes SIMATIC S7-400 rack.
- ☐ Field interface and cabling match 48-pin front connector.
- ☐ The approved drawings and manufacturer record are available at the work location.
- ☐ No rating or configuration has been copied from a visually similar model.

Pre-work review and as-found record

PRE-WORK CHECKLIST

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

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

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

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

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

AS-FOUND RECORD

Installed position / slot

Companion module or assembly

Supply / network state

Cable and terminal identifiers

Jumpers / range / configuration

Active diagnostics / status indications

Photograph or drawing reference

CONTROLLED INSTALLATION SEQUENCE

- 1

Use ESD controls and protect keyed connectors, terminals and assemblies while handling 6ES7432-1HF00-0AB0.
- 2

Confirm the installed SIMATIC S7-400 rack and 48-pin front connector against approved drawings and configuration records.
- 3

Inspect mating hardware, terminal condition, grounding and mechanical retention before installation.
- 4

Restore power or network service in controlled stages; confirm status indications before functional commands.
- 5

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

FIELD TECHNICAL REFERENCE

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	

MODEL-SPECIFIC CAUTION

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

Commissioning, diagnostics and acceptance record

COMMISSIONING STEPS

☐ Confirm mechanical seating, retention, terminal condition and required protective covers.

☐ Verify supply, grounding, shields, polarity, continuity and network state before energization.

☐ Compare slot, channel, range and companion-hardware configuration with approved records.

☐ Restore service in controlled stages and record initial status indications and diagnostics.

☐ Perform a controlled control-valve command loops functional test with process safeguards effective.

☐ Record final diagnostics, configuration, deviations, test evidence and release authorization.

MEASURED / OBSERVED RESULTS

Initial diagnostics

Supply / network value

Channel or command result

Process indication

Interlock / safeguard result

Final status

Related product pages and handover 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

FINAL HANDOVER CHECKLIST

- ☐ Exact model and installed position confirmed
- ☐ As-left wiring and configuration recorded
- ☐ Manufacturer diagnostics reviewed and cleared or dispositioned
- ☐ Functional test completed with acceptance result attached
- ☐ Protective covers restored and work area inspected
- ☐ Operations / maintenance handover authorization recorded

Released by

Date

Remarks

MANUFACTURER SOURCE RECORD

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

[Open official manufacturer source](#)