

6ES5470-4UB12

Analog Output Module

INSTALLATION AND COMMISSIONING GUIDE

It generates eight floating plus-or-minus ten-volt command signals for actuators connected to a SIMATIC S5 compact U-periphery station.

- Provides eight analog output channels
- Generates plus-or-minus ten-volt signals
- Uses floating outputs referred to 0 V
- Fits the compact U-periphery analog position

VERIFIED IDENTITY

Article number	6ES5470-4UB12
Module designation	SIMATIC S5 470 analog output module
Analog outputs	8
Output range	+/-10 V
Electrical arrangement	Floating; eight outputs referred to 0 V
Mechanical version	Compact version U

Official source: Siemens SIMATIC S5 U Periphery Instructions and exact Industry Mall article record
Publication: C79000-B8576-C300-06; exact MLFB product record

APPLICATION SNAPSHOT

Eight-channel actuator command	Provides independent analog commands to field devices.
Variable-speed reference generation	Supplies bipolar speed or process references.
Control-valve positioning	Positions compatible modulating actuators.
S5 analog-output replacement	Restores all output ranges and addresses in the original slot.

01 PRE-INSTALLATION PLAN

Step 1	Verify the complete 6ES5470-4UB12 marking and the assigned SIMATIC S5 compact U-periphery system position before work.
Step 2	Place the connected eight-channel actuator command process in the approved maintenance state.
Step 3	Isolate all applicable power and eight floating plus-or-minus ten-volt outputs field energy before disconnection.
Step 4	Record every connector, conductor, address, jumper and project identity before removal.
Step 5	Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.
Step 6	Confirm the installed SIMATIC S5 U-periphery rack and approved analog actuator and reference wiring against the approved system record.
Step 7	Restore power in a controlled sequence and review module, rack and host diagnostics.
Step 8	Prove the intended variable-speed reference generation function and retain the final acceptance result.

MATCHED HARDWARE

- SIMATIC S5 U-periphery rack
- approved analog actuator and reference wiring
- shielded signal cable and load-supply filtering
- S5 output address and scaling configuration

02 WIRING & INTERFACE CHECKS

Exact model	6ES5470-4UB12
Installed system	SIMATIC S5 compact U-periphery system
Controlled signal	eight floating plus-or-minus ten-volt outputs
Connector record	Capture terminal, plug, jumper and cable identities before removal
Shield and reference	Restore only the documented as-found termination arrangement
Supply isolation	Verify all module, field and stored-energy sources are safe
Configuration record	Save addresses, ranges, parameters, software and project revision
Pre-energization gate	Complete continuity, polarity, supply and protective-device checks



03 COMMISSIONING & RETURN TO SERVICE

1 — Identity	Reconfirm 6ES5470-4UB12 and the assigned system position
2 — Mechanical	Verify seating, retaining hardware, airflow and connector protection
3 — Electrical	Verify supply, polarity, references, shields and field protection
4 — Configuration	Restore only the approved addresses, parameters and project
5 — Controlled power	Energize with the connected process in the maintenance state
6 — Diagnostics	Review module, rack, network and host diagnostic indications
7 — Function	Exercise the documented eight-channel actuator command function
8 — Acceptance	Record the final response and release authorization

APPLICATION-SPECIFIC TESTS

Eight-channel actuator command	Provides independent analog commands to field devices.
Variable-speed reference generation	Supplies bipolar speed or process references.
Control-valve positioning	Positions compatible modulating actuators.
S5 analog-output replacement	Restores all output ranges and addresses in the original slot.

RETURN-TO-SERVICE RECORD

Identification accepted	Complete model and installed marking verified
Connections accepted	All conductors, connectors, shields and jumpers reconciled
Configuration accepted	Addressing, parameters and project revision confirmed
Diagnostics accepted	No unexplained module, rack, network or host faults
Function accepted	Documented controlled response proved
Record retained	As-left evidence and approval stored with the maintenance record



MODEL-SPECIFIC FAQ & RELATED PRODUCTS

1	Which signal range is produced by Siemens 6ES5470-4UB12?	The exact 470-4UB12 article provides eight analog outputs with a plus-or-minus 10 V range.
2	How are the eight outputs arranged on 6ES5470-4UB12?	Siemens documents them as floating outputs referred to 0 V, so the installed reference and shield scheme must be retained.
3	What process devices can 6ES5470-4UB12 command?	It can provide documented bipolar voltage references to compatible drives, positioners or other analog loads within the engineered system.
4	Why must polarity be recorded channel by channel for 6ES5470-4UB12?	Reversing a bipolar output or its reference can reverse the commanded process response.
5	Which load-supply check is relevant to 6ES5470-4UB12?	The Siemens instructions identify filtering for the 24 VDC load supply in applicable installations; confirm the installed filter and wiring.
6	Can 6ES5470-4UB12 be treated like the current-output 470 variants?	No. The UB12 identity is the eight-channel plus-or-minus 10 V variant; verify complete suffix and signal type.
7	What is the lifecycle status of 6ES5470-4UB12?	Siemens lists the product as discontinued since October 2010 and deleted without replacement.
8	How is 6ES5470-4UB12 commissioned safely?	Command controlled negative, zero and positive values on each output and verify the correct field response, scale and diagnostics.

RELATED PRODUCTS ON APTER POWER

01	Bently Nevada 330881 28 05 050 03 02	Related industrial automation product
02	Bently Nevada 21504 00 48 10 02	Related industrial automation product
03	ABB 3HAC043569 004	Related industrial automation product
04	Bently Nevada 129525 0050 02	Related industrial automation product
05	Bently Nevada 102044 00 32 10 02	Related industrial automation product
06	Bently Nevada 21000 11 05 00 085 03 02	Related industrial automation product
07	Bently Nevada 21000 15 10 00 166 03 02	Related industrial automation product
08	Bently Nevada 21000 28 05 00 070 01 02	Related industrial automation product

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