

# 6ES5460-4UA11

## Analog Input Module

### INSTALLATION AND COMMISSIONING GUIDE

It acquires eight mutually isolated analog channels through the documented measuring-range submodule in a SIMATIC S5 U-periphery station.

- Acquires eight analog input channels
- Uses the documented range submodule
- Keeps the input channels electrically floating
- Supports compact U-periphery analog measurement

### VERIFIED IDENTITY

|                                      |                                                                      |
|--------------------------------------|----------------------------------------------------------------------|
| Article number                       | 6ES5460-4UA11                                                        |
| Module designation                   | SIMATIC S5 460 analog input module                                   |
| Analog inputs                        | 8                                                                    |
| Electrical arrangement               | Floating; eight inputs referred to 0 V and isolated from one another |
| Range submodule                      | 6ES5498-1AA11                                                        |
| Documented range-submodule selection | 50 mV / 500 mV / Pt100                                               |

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 process measurement | Collects eight isolated process values for S5 logic.                           |
| Pt100 temperature acquisition     | Measures documented resistance-temperature inputs through the range submodule. |
| Millivolt signal monitoring       | Acquires low-level voltage signals under the approved wiring scheme.           |
| S5 analog-input replacement       | Restores the original analog address and range arrangement.                    |

# 01 PRE-INSTALLATION PLAN

|        |                                                                                                                                   |
|--------|-----------------------------------------------------------------------------------------------------------------------------------|
| Step 1 | Verify the complete 6ES5460-4UA11 marking and the assigned SIMATIC S5 compact U-periphery system position before work.            |
| Step 2 | Place the connected eight-channel process measurement process in the approved maintenance state.                                  |
| Step 3 | Isolate all applicable power and eight floating analog input channels 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 6ES5498-1AA11 measuring-range submodule 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 pt100 temperature acquisition function and retain the final acceptance result.                                 |

## MATCHED HARDWARE

- SIMATIC S5 U-periphery rack
- 6ES5498-1AA11 measuring-range submodule
- shielded analog field wiring and reference conductors
- S5 analog address and scaling configuration

## 02 WIRING & INTERFACE CHECKS

|                       |                                                                    |
|-----------------------|--------------------------------------------------------------------|
| Exact model           | 6ES5460-4UA11                                                      |
| Installed system      | SIMATIC S5 compact U-periphery system                              |
| Controlled signal     | eight floating analog input channels                               |
| 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 6ES5460-4UA11 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 process measurement function   |
| 8 — Acceptance       | Record the final response and release authorization                  |

### APPLICATION-SPECIFIC TESTS

|                                   |                                                                                |
|-----------------------------------|--------------------------------------------------------------------------------|
| Eight-channel process measurement | Collects eight isolated process values for S5 logic.                           |
| Pt100 temperature acquisition     | Measures documented resistance-temperature inputs through the range submodule. |
| Millivolt signal monitoring       | Acquires low-level voltage signals under the approved wiring scheme.           |
| S5 analog-input replacement       | Restores the original analog address and range arrangement.                    |

### 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 | <b>How many channels does Siemens 6ES5460-4UA11 acquire?</b>                    | The module acquires eight analog inputs in the documented compact U-periphery arrangement.                                                    |
| 2 | <b>What isolation arrangement is specified for 6ES5460-4UA11?</b>               | The eight inputs are floating, referred to 0 V and electrically isolated from one another.                                                    |
| 3 | <b>Which range hardware is documented with 6ES5460-4UA11?</b>                   | The Siemens U-periphery instructions identify measuring-range submodule 6ES5498-1AA11 for the listed 50 mV, 500 mV and Pt100 selections.      |
| 4 | <b>Why must channel scaling be captured before replacing 6ES5460-4UA11?</b>     | The CPU project converts raw values according to the installed range and engineering scale; an incorrect transfer changes the process value.  |
| 5 | <b>How should shields be restored on 6ES5460-4UA11?</b>                         | Recreate the recorded shield and reference-conductor terminations without introducing extra ground paths between floating channels.           |
| 6 | <b>What spare-part limitation applies to 6ES5460-4UA11?</b>                     | Siemens lists it as a spare-only discontinued article deleted without replacement, so the exact MLFB must be retained.                        |
| 7 | <b>Can 6ES5460-4UA11 use settings copied from 6ES5460-4UA12 without review?</b> | No. Treat each complete article number separately and verify the range submodule, bridge settings and project channel data.                   |
| 8 | <b>How is 6ES5460-4UA11 accepted after installation?</b>                        | Apply controlled reference values to all eight channels and confirm stable raw values, engineering scaling and absence of analog diagnostics. |

## RELATED PRODUCTS ON APTER POWER

|    |                                            |                                       |
|----|--------------------------------------------|---------------------------------------|
| 01 | <a href="#">Siemens 6SE7027 2TD84 6HF3</a> | Related industrial automation product |
| 02 | <a href="#">Siemens 6RY1803 0AA25 0AA1</a> | Related industrial automation product |
| 03 | <a href="#">Siemens 6SE7035 1EJ84 1JC1</a> | Related industrial automation product |
| 04 | <a href="#">Siemens 6SE7033 7EG84 1JF1</a> | Related industrial automation product |
| 05 | <a href="#">Siemens 6SL3352 6TG38 8AA3</a> | Related industrial automation product |
| 06 | <a href="#">Siemens 6SE7041 2WL84 1JC1</a> | Related industrial automation product |
| 07 | <a href="#">Siemens 6SL3120 2TE21 8AC0</a> | Related industrial automation product |
| 08 | <a href="#">Siemens 6RY1803 1DA04</a>      | Related industrial automation product |

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