

APTER POWER PRODUCT REFERENCE MANUAL

6ES7332-7ND02-0AB0

SIMATIC S7-300 SM 332 Four-Channel Analog Output Module

|                  |                                                               |
|------------------|---------------------------------------------------------------|
| ENGINEERING LENS | HIGH-RESOLUTION ANALOG COMMAND OUTPUT AND ISOCHRONOUS CONTROL |
| SYSTEM           | SIMATIC S7-300                                                |
| SOURCE CONTROL   | Manufacturer-published information only                       |

This original Apter Power manual explains high-resolution analog command output and isochronous control using only the manufacturer source named inside the document.

|              |                                     |
|--------------|-------------------------------------|
| Manufacturer | Siemens                             |
| Prepared by  | Apter Power                         |
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Engineering clarity for high-resolution analog command output and isochronous control.

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SCAN FOR PRODUCT & QUOTE  
6ES7332-7ND02-0AB0

# 1. Product Identity and System Role

6ES7332-7ND02-0AB0 is a Siemens SIMATIC S7-300 SM 332 analog output module with four channel-isolated outputs, 16-bit resolution, voltage and current ranges, a 20-pole front connection, and support for isochronous operation.

The module converts four controller output words into precise voltage or current signals for modulating valves, drives, positioners, recorders, and other continuous-control equipment while returning channel and module diagnostics to the PLC.

## Model Configuration

| Field               | Verified information                                    |
|---------------------|---------------------------------------------------------|
| Complete model      | 6ES7332-7ND02-0AB0                                      |
| Manufacturer        | Siemens                                                 |
| Product description | SIMATIC S7-300 SM 332 Four-Channel Analog Output Module |
| System              | SIMATIC S7-300                                          |

## Product-Specific Design Focus

high-resolution analog command output and isochronous control

## 2. Technical Specifications and Evidence Boundary

Only values supported by the named Siemens source are stated. Where the complete ordering code is absent from public data, the field is explicitly marked for verification.

| Parameter        | Verified value                |
|------------------|-------------------------------|
| Manufacturer     | Siemens                       |
| Module           | SM 332 analog output          |
| Outputs          | 4, isolated by channel        |
| Resolution       | 16 bit                        |
| Voltage ranges   | 0 to 10 V, 1 to 5 V, +/-10 V  |
| Current ranges   | +/-20 mA, 0/4 to 20 mA        |
| Front connection | 20-pole                       |
| Operating mode   | Suitable for isochronous mode |

### Evidence Note

Use the complete 6ES7332-7ND02-0AB0 identity. Siemens lists the article as a spare part and showed product phase-out effective October 1, 2023. Confirm service availability and migration engineering. Values not published in the cited Siemens source are intentionally not inferred.

### 3. Functions, Applications and Matched Components

#### Core Functions

- The module converts four controller output words into precise voltage or current signals for modulating valves, drives, positioners, recorders, and other continuous-control equipment while returning channel and module diagnostics to the PLC.
- Preserves the documented role within SIMATIC S7-300.
- Supports model-specific engineering review without substituting unverified third-party data.

#### Application Areas

| Application                      | System role                                                                                                                                                   |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SIMATIC S7-300                   | Maintains the documented high-resolution analog command output and isochronous control role in a correctly matched installation.                              |
| Process and machine automation   | Supports the control, communication, power, safety, measurement, or protection duty stated in the official source for this exact or verified family identity. |
| Lifecycle-controlled maintenance | Requires complete-code, nameplate, host-system, and project verification before replacement or recommissioning.                                               |

#### Compatible Components

- SIMATIC S7-300 rack, CPU, and bus configuration supporting SM 332
- 20-pole front connector and shield/ground arrangement from the module manual
- Analog field devices configured for the selected voltage or current range

#### Lifecycle Status

Siemens lists the article as a spare part and showed product phase-out effective October 1, 2023. Confirm service availability and migration engineering.

## 4. Installation Precautions

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- Match every character of 6ES7332-7ND02-0AB0 to the physical nameplate before work.
- Use the exact Siemens manual, wiring drawing, and safety instructions for the installed revision.
- De-energize and apply the required lockout, discharge, ESD, and stored-energy controls before removal.
- Back up firmware, parameters, controller project, calibration, and network settings where applicable.
- Verify supply, signal type, polarity, grounding, shielding, connector pinout, load, and environmental limits.
- Commission with the manufacturer test procedure and record results before returning equipment to service.

DECISION GATE - Verify before installation

Use the complete 6ES7332-7ND02-0AB0 identity. Siemens lists the article as a spare part and showed product phase-out effective October 1, 2023. Confirm service availability and migration engineering. Values not published in the cited Siemens source are intentionally not inferred.

Controlling records: physical nameplate, current Siemens document, and host-system drawings.

## 5. Official Source and Use Notice

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### Official manufacturer source

Siemens SiePortal product data and SIMATIC S7-300 Module Data manual for 6ES7332-7ND02-0AB0.

<https://mall.industry.siemens.com/mall/en/oeii/Catalog/Product/6ES7332-7ND02-0AB0>

### Apter Power product page

<https://www.apterpower.com/Siemens/6es7332-7nd02-0ab0>

### Use Notice

This is an original Apter Power model-specific reference prepared from the Siemens source named above. It is not a Siemens publication and does not replace the original data sheet, nameplate, certificate, installation drawing, safety instructions, or machine-builder documentation.

### ASK FOR QUOTE

For availability and a model-specific quotation, visit [www.apterpower.com](http://www.apterpower.com) or contact [sales13@apterpower.com](mailto:sales13@apterpower.com).