

APTER POWER PRODUCT MANUAL

6ES7288-3AR02-0AA0

SIMATIC S7-200 SMART EM AR02 RTD Input Module

The Siemens 6ES7288-3AR02-0AA0 is a SIMATIC S7-200 SMART EM AR02 RTD Input Module that provides two module-referenced RTD/resistance inputs with 0.1 degree temperature resolution.

In an S7-200 SMART automation station, it measures two compatible RTD or resistance sensor circuits and provides 16-bit temperature or resistance data. It works with the exact CPU, expansion-bus or signal-board interface, wiring, field devices, and project configuration specified for the complete article number. It is applied in bearing, tank, heater, winding, and process temperature monitoring.

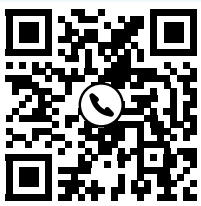
Manufacturer	Siemens
Prepared by	Apter Power
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Revision	R1
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

**Two RTD channels. Fine temperature detail.
Verified resistance measurement.**

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



SCAN FOR PRODUCT & QUOTE
6ES7288-3AR02-0AA0

1. Product Overview and Identity

The Siemens 6ES7288-3AR02-0AA0 is a SIMATIC S7-200 SMART EM AR02 RTD Input Module that provides two module-referenced RTD/resistance inputs with 0.1 degree temperature resolution.

In an S7-200 SMART automation station, it measures two compatible RTD or resistance sensor circuits and provides 16-bit temperature or resistance data. It works with the exact CPU, expansion-bus or signal-board interface, wiring, field devices, and project configuration specified for the complete article number. It is applied in bearing, tank, heater, winding, and process temperature monitoring.

Model Configuration

Field	Verified information
Complete model	6ES7288-3AR02-0AA0
Manufacturer	Siemens
Product description	SIMATIC S7-200 SMART EM AR02 RTD Input Module

Key Features

- Exact Siemens MLFB 6ES7288-3AR02-0AA0
- SIMATIC S7-200 SMART EM AR02 RTD Input Module
- 2 RTD or resistance-measurement inputs
- 24 V DC; 20.4 to 28.8 V DC
- 45 x 100 x 81 mm
- 0.1487 kg approximate device weight

2. Technical Specifications

Only manufacturer-confirmed information is stated. Values absent from the named Siemens source are marked for nameplate or document verification.

Parameter	Verified value
Product type	SIMATIC S7-200 SMART EM AR02 RTD Input Module
Complete article number	6ES7288-3AR02-0AA0
System	SIMATIC S7-200 SMART
Primary function	two module-referenced RTD/resistance inputs with 0.1 degree temperature resolution
Signal configuration	2 RTD or resistance-measurement inputs
Supply / host interface	24 V DC; 20.4 to 28.8 V DC
Product type designation	EM AR02, RTD 2x16 bit
RTD/resistance inputs	2
Temperature resolution	0.1 deg C / 0.1 deg F
Resistance resolution	15 bits plus sign
Maximum sensor cable length	100 m
Maximum withstand voltage	+/-35 V
Power loss	1.5 W
Degree of protection	IP20
Device dimensions	45 x 100 x 81 mm (W x H x D)
Approximate device weight	0.1487 kg
Country of origin	Germany
Lifecycle	The exact article number is documented in current Siemens technical data and product records; confirm regional ordering availability at quotation.

Verification Note

Use the complete 6ES7288-3AR02-0AA0 identifier. The exact article number is documented in current Siemens technical data and product records; confirm regional ordering availability at quotation. Values not published in the cited Siemens sources are intentionally not inferred.

3. Functions, Applications and Components

Core Functions

- Measures two compatible RTD or resistance sensor circuits and provides 16-bit temperature or resistance data.
- Maintains the documented EM AR02 function for the complete 6ES7288-3AR02-0AA0 article number.
- Provides a model-specific basis for wiring, configuration, commissioning, diagnostics, and replacement verification.

Application Areas

Application	System role
RTD temperature monitoring	Measures 2 rtd or resistance-measurement inputs using Siemens-listed sensor configurations
Thermal protection	Provides temperature values for alarms, permissives, and shutdown logic
Resistance measurement	Processes compatible resistance-sensor circuits within published limits
Industrial thermal trending	Supports bearing, tank, heater, winding, and process temperature monitoring

Compatible Components

- S7-200 SMART or ET 200 SMART configuration that explicitly supports 6ES7288-3AR02-0AA0
- Expansion-bus connection, removable terminal blocks, DIN rail, and panel clearances specified by Siemens
- Shielded analog sensor or actuator cabling with documented grounding and reference conductors
- Field transmitters, sensors, loads, and power supplies matched to every published signal range and channel limit

Lifecycle Status

The exact article number is documented in current Siemens technical data and product records; confirm regional ordering availability at quotation.

4. Installation Precautions

- Identity: Match every character of 6ES7288-3AR02-0AA0 and the EM AR02 marking to the physical nameplate and project
- Host and power: Verify 24 V DC; 20.4 to 28.8 V DC; isolate all energy sources before insertion, removal, or wiring
- Sensors: Select only Siemens-listed RTD/resistance types and match the documented 2-, 3-, or 4-wire circuit and lead-resistance limits
- Cabling: Follow Siemens terminal, shielding, grounding, separation, and maximum cable-length instructions
- Commissioning: Verify addresses and scaling, energize one circuit group at a time, test fail-safe behavior, and record results

STOP - Verify before installation

Use the complete 6ES7288-3AR02-0AA0 identifier. The exact article number is documented in current Siemens technical data and product records; confirm regional ordering availability at quotation. Values not published in the cited Siemens sources are intentionally not inferred.

Use the physical nameplate and current Siemens documents as the controlling records.

5. Official Source and Use Notice

Official source

Siemens official technical data sheet or product record for 6ES7288-3AR02-0AA0: <https://support.industry.siemens.com/teddatasheet/?caller=SIOS&format=pdf&language=en&mlfbs=6ES7288-3AR02-0AA0>; Siemens official system manual used for model-specific installation and compatibility context: https://support.industry.siemens.com/cs/attachm/109963390/SIMATIC_ET_200_SMART_IM60_System_Manual_en-US.pdf

Apter Power product page

<https://www.apterpower.com/Siemens/6es7288-3ar02-0aa0>

Use Notice

This is an original Apter Power product-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 quotation details, visit www.apterpower.com or contact sales13@apterpower.com.