

Product dashboard

Siemens 6ES7134-4NB51-0AB0 is a 15 mm ET 200S two-channel RTD and resistance input module with 15-bit-plus-sign resolution and internal line-resistance compensation.

Exact model

6ES7134-4NB51-0AB0

Product type

ET 200S 2AI RTD High Feature Module

System family

SIMATIC ET 200S

Functional role

Analog Input Module

PARAMETER	DOCUMENTED VALUE
Exact article	6ES7134-4NB51-0AB0
Product family	SIMATIC ET 200S
Module type	2AI RTD High Feature analog electronic module
Input channels	2
Supported wiring	2-wire / 3-wire / 4-wire
Maximum resolution	15 bits + sign
Module width	15 mm
Address space	4 bytes

Release basis: verify the exact identity, retained host relationship, connected interfaces and controlled functional result.

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6ES7134-4NB51-0AB0

System overview

Siemens 6ES7134-4NB51-0AB0 acquires two resistance-thermometer or resistance signals in an ET 200S station and digitizes the configured measurements for the backplane bus.

- RTD temperature acquisition**

Connects two configured resistance thermometers to an ET 200S station.
- Resistance measurement**

Measures supported resistance ranges with the selected wiring method and parameters.
- Long sensor runs**

Uses shielded cable up to the documented 200 m limit with correct grounding and compensation.
- Diagnostic maintenance**

Separates parameter, module, limit and wire-break conditions through SF and readable diagnostics.

SYSTEM POSITION	RECORD
Installed identity	6ES7134-4NB51-0AB0
Host relationship	SIMATIC ET 200S
Controlled function	two-channel RTD and resistance measurement in SIMATIC ET 200S

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Technical data map

PARAMETER	VERIFIED VALUE
Exact article	6ES7134-4NB51-0AB0
Product family	SIMATIC ET 200S
Module type	2AI RTD High Feature analog electronic module
Input channels	2
Supported wiring	2-wire / 3-wire / 4-wire
Maximum resolution	15 bits + sign
Module width	15 mm
Address space	4 bytes
Rated load voltage	24 V DC
Maximum shielded cable length	200 m
Typical power dissipation	0.6 W
Maximum current from L+	30 mA
Diagnostic indication	Red SF LED
Insulation test	500 V DC
CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Interfaces	Power, wiring, communication and protection
Configuration	Settings, project and revision
Release	two-channel RTD and resistance measurement in SIMATIC ET 200S

Technical evidence record: Siemens ET 200S 2AI RTD HF Manual A5E01076876-02 and exact Industry Mall record

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Applications and precautions

1

Confirm the complete Siemens 6ES7134-4NB51-0AB0 marking before work.

2

Place both affected measurement loops in the approved maintenance state.

3

Record the terminal module and all two-, three- or four-wire connections.

4

Capture both channel ranges, measurement types, smoothing and diagnostic settings.

5

Verify the 24 V DC load supply and protective grounding before installation.

6

Restore shields and terminal assignments without interchanging channel conductors.

7

Review the SF indicator and readable diagnostics after controlled energization.

8

Compare both measured values with the retained process references before release.

Complete each check against the installed record; hold release when any identity, connection, configuration or diagnostic result differs.

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Buyer and engineering FAQ

How many channels does Siemens 6ES7134-4NB51-0AB0 provide?

It provides two analog inputs for resistance thermometers or resistance measurement.

Which sensor connections can Siemens 6ES7134-4NB51-0AB0 use?

The module supports two-wire, three-wire and four-wire sensor connections.

What resolution does Siemens 6ES7134-4NB51-0AB0 provide?

Supported RTD ranges provide up to 15 bits plus sign, while supported resistance ranges provide up to 15 bits.

What supply is required by Siemens 6ES7134-4NB51-0AB0?

The documented rated load voltage from the power module is 24 V DC.

Related Apter Power pages

[Siemens 6ES7431-7KF00-6AA0](#)

[Siemens 6ES5312-3AB31](#)

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