

SIMATIC ET 200S

Product Data Sheet

6ES7134-4JB51-0AB0

RTD resistance input module

CHANNEL CONFIGURATION	RESISTANCE THERMOMETERS	RESISTANCE MEASURING RANGES	RATED LOAD VOLTAGE
4 two-wire or 2 three-/four-wire inputs	Pt100; Ni100, standard or climatic	0-150; 0-300; 0-600 ohm	24 V DC

Siemens 6ES7134-4JB51-0AB0 is a Standard RTD and resistance-input electronics module in the SIMATIC ET 200S distributed I/O family. It supports Pt100 and Ni100 temperature measurement and resistance ranges of 150, 300 and 600 ohms for industrial temperature-monitoring circuits.

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VERIFIED TECHNICAL DATA

Channel configuration	4 two-wire or 2 three-/four-wire inputs
Resistance thermometers	Pt100; Ni100, standard or climatic
Resistance measuring ranges	0-150; 0-300; 0-600 ohm
Rated load voltage	24 V DC
Maximum L+ current	30 mA without load
Maximum backplane current	10 mA at 3.3 V DC
Typical power loss	0.6 W
Maximum input address area	8 byte
Typical measuring current	1.67 mA
Maximum permissible input voltage	9 V destruction limit

ADDITIONAL PRODUCT DATA

Shielded sensor cable length	200 m maximum
Maximum resolution with sign	16 bit for Pt100/Ni100
Integration time	16.7 / 20 ms
Conversion time per channel	66 / 80 ms plus wire-break test
RTD basic error at 25 C	+/-0.4% of input range

DOCUMENTED USE SETTINGS

Temperature Measurement Across Food Preparation and Processing Areas: Heated food processing vessels with resistance thermometer measurement points.

Temperature Observation in Chemical Production and Thermal Processes: Chemical reaction vessels with multiwire resistance thermometer sensing points.

Resistance Temperature Measurement in Industrial Heating Production Areas: Industrial thermal processing machines with distributed resistance temperature sensors.

SYSTEM COMPATIBILITY

Install 6ES7134-4JB51-0AB0 in its configured ET 200S station and select the terminal assignment for two-, three- or four-wire sensors. Use four channels only with two-wire wiring; three- and four-wire measurements use two channels.

OFFICIAL SOURCE

Siemens product data sheet, 9 March 2017, pages 1-4

AMIKON PRODUCT SUPPORT

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