

AMIKON TECHNICAL DOCUMENTATION

# Product Data Sheet

Siemens 6ES7134-4JB50-0AB0

Standard RTD Input Module

|        |               |                   |                |
|--------|---------------|-------------------|----------------|
| INPUTS | SENSORS       | RESISTANCE        | CURRENT        |
| 2 RTD  | Pt100 / Ni100 | 150 / 300 / 600 Ω | Approx. 1.5 mA |

Siemens 6ES7134-4JB50-0AB0 is a two-channel SIMATIC ET 200S Standard input module for Pt100, Ni100 and resistance measurement. It supports 150, 300 and 600 ohm ranges, characteristic linearization and integrating conversion, with separate measuring and constant-current connections for four-wire sensors.

01

## VERIFIED TECHNICAL INFORMATION

|                       |                                                                                    |
|-----------------------|------------------------------------------------------------------------------------|
| Analog input channels | 2 for RTD or resistance measurement                                                |
| RTD characteristics   | Pt100 and Ni100, standard or climatic ranges                                       |
| Resistance ranges     | 0 to 150 ohms, 0 to 300 ohms and 0 to 600 ohms                                     |
| Resolution            | Pt100/Ni100: 15 bits plus sign; 150 ohms: 14 bits; 300/600 ohms: 15 bits           |
| Sensor connection     | Four-wire; two-/three-wire with specified jumpers and lead-resistance contribution |
| Measuring current     | Approximately 1.5 mA constant-current supply                                       |
| Input resistance      | Minimum 2 Mohm for listed RTD and resistance ranges                                |

Manufacturer evidence: SIMATIC ET 200S Distributed I/O System; exact-model manual section and manufacturer data sheet.

02 TECHNICAL INFORMATION CONTINUED

|                       |                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------|
| Rated load supply     | 24 V DC from power module; reverse-polarity protection                                                    |
| Supply current        | Maximum 30 mA from L+                                                                                     |
| Power dissipation     | Typically 0.6 W                                                                                           |
| Input address space   | 4 bytes                                                                                                   |
| Conversion time       | 110 ms/channel at 60 Hz or 130 ms/channel at 50 Hz                                                        |
| Shielded cable length | Maximum 200 m                                                                                             |
| Electrical isolation  | From backplane and load supply; not between channels                                                      |
| Diagnostics           | Red SF LED; group and overflow/underflow diagnostics; wire-break detection on constant-current lines only |

03 SOURCE AND CONFIGURATION CHECKS

Two- and three-wire connections require the specified terminal jumpers and include lead resistance in the measurement. The module therefore needs wiring-aware commissioning, especially when replacing a different RTD variant. Its wire-break diagnostics monitor constant-current lines and do not detect every possible break in sensing conductors.

Packed dimensions and supplied-unit origin must be checked against the actual delivery. No verified gross shipping weight is inferred from module net mass.

Source: Siemens 07/2003, EWA-4NEB780602402-09. See the original pages in the accompanying manufacturer manual.  
Siemens 07/2008, A5E01076865-02; successor source pp. 1-3,15

AMIKON PRODUCT SUPPORT

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM