AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7134-4GB51-0AB0

High-speed Two-wire Current Input



INPUTS	RANGES	CYCLE	TYPE
2 current	**0-20 / 4-20 mA**	**1 ms**	**2-wire HS**

Siemens 6ES7134-4GB51-0AB0 is a High Speed analog input module for SIMATIC ET 200S. It acquires two current signals from two-wire transmitters, supporting 0 to 20 mA and 4 to 20 mA ranges with 13-bit resolution including overrange.

01 VERIFIED TECHNICAL INFORMATION

Analog input channels	2 for two-wire current transmitters
Ranges and resolution	0-20 mA or 4-20 mA; 13 bits including overrange
Input resistance	50 ohm in both ranges
Input address space	4 bytes
Rated load supply	24 V DC from power module, reverse-polarity protection
Transmitter supply output	Rated 90 mA shared by both channels
Power dissipation	Typically 0.8 W

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

02 TECHNICAL INFORMATION CONTINUED

Conversion and module cycle	0.1 ms per-channel conversion; 1 ms per-module cycle
Clocked-operation timing	Minimum DP cycle 2.5 ms; minimum input conversion window TWEmin 1.1 ms
Digital smoothing	Time constants 1, 64, 128 or 512 module cycles
Permitted transmitter load	Maximum 670 ohm for two-wire transducer
Electrical isolation	From backplane bus; not between channels or from load voltage L+
Measurement error limits	±0.2% at 25 °C; ±0.3% over temperature range, relative to input range
Diagnostics and interrupts	Red SF, readable errors; parameterizable hardware interrupt in DPV1 only; open-circuit detection only 4-20 mA
Shielded signal cable	Maximum 200 m

03 SOURCE AND CONFIGURATION CHECKS

Instantaneous-value conversion provides a one-millisecond module cycle. Clocked operation is supported under the documented station timing conditions, while configurable smoothing and diagnostics shape signal processing. The measuring circuits provide transmitter power, and the inputs are isolated from the ET 200S backplane bus.

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 06/2013, A5E02473863-02; supplement source pp. 1-2

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