

AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7134-6HD01-0BA1

Voltage and Current Input Module

INPUTS	SIGNALS	BASEUNIT	SUPPLY
4 differential analog	Voltage / two-wire current	A0 / A1, CC03	24 V DC

Siemens 6ES7134-6HD01-0BA1 is a SIMATIC ET 200SP Standard analog input module with four differential channels. Voltage ranges and two-wire current measurement can be selected per channel, allowing mixed signal acquisition within one module. Optional quality information accompanies the eight-byte measurement area.

01

VERIFIED TECHNICAL INFORMATION

Analog input channels	4 differential inputs
Voltage measuring ranges	+/-5 V and +/-10 V with 16-bit resolution including sign; 1 to 5 V and 0 to 10 V with 15-bit resolution
Current measuring ranges	0 to 20 mA or 4 to 20 mA, 15-bit resolution; two-wire transmitters only
BaseUnit compatibility	BU types A0 and A1; module color code CC03
Rated supply voltage	24 V DC; permissible range 19.2 to 28.8 V DC
Input resistance	120 kilohm for voltage; 100 ohm plus approximately 0.7 V diode forward drop for current
Input address space	8 bytes; optional quality information uses 1 additional byte

Manufacturer evidence: Analog Input Module AI 4xU/I 2-wire ST (6ES7134-6HD01-0BA1); exact-model manual section and manufacturer data sheet.

02 TECHNICAL INFORMATION CONTINUED

Conversion time per channel	180 ms at 16.6 Hz, 60 ms at 50 Hz or 50 ms at 60 Hz interference suppression
Digital smoothing	None, weak, medium or strong; factors of 1, 4, 8 or 16 module cycles
Measurement error limits	+/-0.3% of input range at 25 C; +/-0.5% over the operating temperature range
Two-wire transmitter burden	Maximum 650 ohm
Shielded cable length	Maximum 1000 m for current measurement; 200 m for voltage measurement
Transmitter supply	24 V with short-circuit protection; 20 mA, with maximum 50 mA per channel for less than 10 seconds
Module power loss	Typically 0.85 W, excluding transmitter supply
Electrical isolation	Inputs isolated from the backplane; isolation from electronics supply applies only to voltage inputs

03 SOURCE AND CONFIGURATION CHECKS

Configurable interference suppression and digital smoothing adapt measurement behavior to signal conditions, while module diagnostics report supply and input faults. Isolation from the electronics supply applies to voltage inputs only. Four-wire current transmitters are excluded, and a channel fault sets quality information for all channels to zero.

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 06/2020, A5E03572832-AF. See the original pages in the accompanying manufacturer manual.

AMIKON PRODUCT SUPPORT

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