AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7134-6HD00-0BA1

Voltage and Current Input Module



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

Siemens 6ES7134-6HD00-0BA1 connects four differential analog signals to a SIMATIC ET 200SP station. Channels can be configured for the documented voltage ranges or two-wire current transmitters. A compatible BaseUnit provides the field terminals, while selectable interference suppression and smoothing support measurement processing.

01 VERIFIED TECHNICAL INFORMATION

Analog input channels	4 differential inputs
Voltage measuring ranges	+/-5 V and +/-10 V: 16 bits including sign; 1 to 5 V and 0 to 10 V: 15 bits
Current measuring ranges	0 to 20 mA or 4 to 20 mA: 15 bits; two-wire transmitters only
BaseUnit compatibility	BU types A0 and A1; 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 voltage for current
Input address space	8 bytes; quality information adds 1 byte (version-dependent)

Manufacturer evidence: Analog Input Module AI 4xU/I 2-wire ST (6ES7134-6HD00-0BA1); 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; smoothing factors 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, short-circuit protected; 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 the electronics supply applies only to voltage inputs

03 SOURCE AND CONFIGURATION CHECKS

Eight measurement bytes can be supplemented by a version-dependent quality-information byte. Isolation from the electronics supply applies only to voltage inputs. Correct handling of inactive channels, shared diagnostic effects and parameters restored after restart helps preserve the intended behavior of an existing installation.

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 07/2014, A5E03572832-AC. See the original pages in the accompanying manufacturer manual.

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