SIMATIC ET 200SP

Product Data Sheet

6ES7134-6GF00-0AA1

Eight-Channel Current Input Module

ANALOG INPUT CHANNELS	CURRENT MEASURING RANGES	SUPPLY VOLTAGE	MAXIMUM SUPPLY CURRENT
8; single-ended	**0 to 20 mA; +/-20 mA; 4 to 20 mA**	**24 V DC; permissible 19.2 to 28.8 V**	**25 mA; excluding encoder supply**

Siemens 6ES7134-6GF00-0AA1 is the ET 200SP AI 8xI 2-/4-wire Basic module with eight single-ended current inputs. It supports 0 to 20 mA, +/-20 mA and 4 to 20 mA measurement and occupies 16 input bytes. The module uses a 24 V DC supply and the A0 or A1 BaseUnit arrangement with the specified CC01 coding.

01 TECHNICAL DATA

Analog input channels	8; single-ended
Current measuring ranges	0 to 20 mA; +/-20 mA; 4 to 20 mA
Supply voltage	24 V DC; permissible 19.2 to 28.8 V
Maximum supply current	25 mA; excluding encoder supply
Encoder supply total current	Maximum 0.7 A
Typical power loss	0.7 W; excluding encoder supply
Input address allocation	16 bytes
Input resistance	100 ohm
Bipolar resolution	16 bits including sign
Unipolar resolution	15 bits

Siemens 6ES7134-6GF00-0AA1 manufacturer technical data; applicable specification pages.

02 ADDITIONAL PRODUCT DATA

Maximum shielded signal cable	200 m
Two-wire encoder burden	Maximum 650 ohm
Basic error limit	+/-0.3% of input range
Operational error limit	+/-0.5% of input range
Linearity error	+/-0.01% of input range

03 PRODUCT FUNCTION

The input resistance is 100 ohm, and conversion provides 16 bits including sign in the bipolar range or 15 bits in the unipolar ranges. Two-wire encoder operation permits a maximum 650 ohm burden, while shielded signal cable can extend to 200 m. Configurable smoothing and wire-break diagnostics for the 4 to 20 mA range support signal conditioning and fault identification. The stated basic and operational error limits are +/-0.3% and +/-0.5% of the input range.

04 SYSTEM COMPATIBILITY

Wire the transmitters using the documented two-wire or four-wire connection scheme. Include the 100 ohm input resistance and other loop loads in the current-loop budget; the specified two-wire encoder burden is limited to 650 ohm. The module encoder supply permits a maximum aggregate current of 0.7 A.

05 REFERENCE

Siemens 6ES7134-6GF00-0AA1 manufacturer technical data; applicable specification pages.

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