SIMATIC ET 200L-SC

Product Data Sheet

6ES7123-1GB00-0AB0

Two-channel Current Input Submodule

ANALOG INPUT CHANNELS	RATED SUPPLY	MAXIMUM SUPPLY CURRENT	TYPICAL DISSIPATION
2	**24 V DC**	**30 mA**	**0.6 W**

Siemens 6ES7123-1GB00-0AB0 is a SIMATIC SC two-channel analog current input submodule for the ET 200L-SC arrangement. It accepts either 4 to 20 mA or bipolar -20 to +20 mA signals and occupies one of the eight submodule positions on a TB 16SC terminal block. Each current input has a nominal resistance of 50 ohms.

01 TECHNICAL DATA

Analog input channels	2
Rated supply	24 V DC
Maximum supply current	30 mA
Typical dissipation	0.6 W
Terminal block	TB 16SC
Terminal positions occupied	1 of 8
Current ranges	-20 to +20 mA; 4 to 20 mA
Input resistance	50 ohms
Permanent input destruction limit	40 mA
Maximum shielded signal cable	200 m

02 ADDITIONAL PRODUCT DATA

Bipolar range resolution	13 bits including overrange
Unipolar range resolution	12 bits including overrange
Basic conversion time	55 / 65 ms
Integration time	50 / 60 ms
Digital smoothing stages	1, 8, 64 or 128 cycle times

03 PRODUCT FUNCTION

The submodule uses an integrating conversion method, with 13-bit resolution on the bipolar range and 12-bit resolution on the 4 to 20 mA range, including overrange. Its configurable integration and digital filtering adapt the response to the selected interference rejection and smoothing. A 24 V DC supply provides the electronics, with a maximum supply current of 30 mA and typical dissipation of 0.6 W.

04 SYSTEM COMPATIBILITY

Route the shielded signal cables within the documented 200 m limit and account for the 50-ohm input burden in each transmitter loop. The stated 40 mA value is a permanent destruction limit, not a normal operating range. Apply the terminal-block wiring and power arrangement specified for the installed ET 200L-SC station.

05 REFERENCE

Siemens 6ES7123-1GB00-0AB0 official product data; applicable specification pages.

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