SIMATIC ET 200AL

Product Data Sheet

6ES7144-5KD00-0BA0

Four-channel Analog Input Module

ANALOG CHANNELS	SIGNAL CONNECTORS	SUPPLY CONNECTOR	ET-CONNECTION
4	**4 x M12, 5-pole**	**M8, 4-pole**	**M8, 4-pin shielded**

Siemens 6ES7144-5KD00-0BA0 is the SIMATIC ET 200AL AI 4xU/I/RTD 4xM12 analog input module. Four configurable channels accept voltage, current, resistance or Pt100/Ni100 signals through five-pole M12 connectors. It uses the ET-Connection bus and a nominal 24 V DC supply, with an IP65/IP67 installation arrangement.

01 TECHNICAL DATA

Analog channels	4
Signal connectors	4 x M12, 5-pole
Supply connector	M8, 4-pole
ET-Connection	M8, 4-pin shielded
Rated supply	24 V DC
Permitted supply	20.4 to 28.8 V DC
Unloaded rated current	35 mA
Typical power loss	1.5 W
Resolution	16 bits including sign and overrange
Voltage ranges	0 to 10 V; 1 to 5 V

02 ADDITIONAL PRODUCT DATA

Current ranges	0 to 20 mA; 4 to 20 mA
Resistance ranges	0 to 150 ohms; 0 to 300 ohms
RTD types	Pt100 and Ni100
Sensor supply maximum	0.5 A per channel; 1 A total
Maximum shielded sensor cable	30 m

03 PRODUCT FUNCTION

The integrating converter provides up to 16-bit resolution including sign and overrange. Supported ranges include 0 to 10 V, 1 to 5 V, 0 to 20 mA, 4 to 20 mA and resistance ranges up to 150 or 300 ohms. The unloaded rated current is 35 mA and typical dissipation is 1.5 W; the four sensor supplies allow 0.5 A per channel within a 1 A total limit.

04 SYSTEM COMPATIBILITY

Use the documented five-pole M12 signal pin assignments for voltage, current or resistance wiring. Connect the M8 supply and ET-Connection cables to their designated ports and preserve the seals and closures required for IP65/IP67. Keep shielded sensor cables within 30 m and account for both individual and total sensor-supply current limits.

05 REFERENCE

Siemens 6ES7144-5KD00-0BA0 official product data; applicable specification pages.

AMIKON PRODUCT SUPPORT

+86-18020776786 INFO@AMIKON.CN **AMIKONG.COM**