AHAR PowerStation Services
Product Data Sheet

RAMONA Analog I/O Module

Model: AAI2835-S50

Description

I/O modules are building blocks of industrial control systems used in end equipment such as PLC (Programmable Logic Controllers), PAC (Programmable Automation Controller) and DCS (Distributed Control Systems). Analog input/output modules capture and measure signals such as temperature, pressure, flow, level, vibration and motion. These parameters are transmitted from equipment such as sensors and other field devices on the factory floor in the form of current or voltage. Current-loops typically range from 4-20mA.

Functionality

These modules provide 4 outputs and 4 inputs of mainly 4 to 20 mA DC standardized signals from 2-wire/4-wire transmitters. They can be used in dual-redundant configuration.

Key Feature

- 4, Isolated Input Channels
- Input Signal is 4 to 20 mA
- Accuracy is ±16µA
- 4, Isolated Output Channels
- Accuracy is ±48µA
- Data Update Period is 10ms

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Specification

Number of Input Channels		4, Isolated
Input Signal		4 to 20 mA
Allowable Input Current		30 mA
Number of Output Channels		4, isolated
Output Signal		4 to 20 mA
Allowable Output Current		22 mA
Withstanding Voltage		Between Field and System: 1500 V AC, for 1 minute
Accuracy		±16 μA (Input Channels) ±48 μA (Output Channels)
Data Update Period		10 ms
Transmitter Power Supply		21.6 V or higher (at 20 mA) 26.4 V or less (at 0 mA)
Drift due to Ambient Temperature Change		±16 μA/10 ˚C
Maximum Current Consumption		360 mA (5 V DC), 450 mA (24 V DC)
Input Resistance	Power ON	290 Ω (20 mA) to 450 Ω (4 mA)
	Power OFF	500 kΩ or larger

Mechanical

Connection technology	Pressure clamp terminal, MIL connector cable, dedicated cable (KS1)
Dimension	
• Width	32.8 mm
• Height	130 mm
• Depth	107.5 mm
weight	300 gr
Installation	Snaps onto Backplane (ANB2010D)
Electrical accessories	MIL Connector Cable
IP degree of protection	IP30

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