AHAR PowerStation Services

Product Data Sheet

RAMONA Analog Input module

Model: AAI2143-H50

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 16 inputs of mainly 4 to 20 mA DC standardized signals from 2-wire/4-wire transmitters. They can be used in dual-redundant configuration. HART communication is available (at current input) for this modules.

Key Feature

- 16, isolated input channels
- Input signal is 4 to 20 mA
- Accuracy is ±16µA
- Data update period is 10ms
- Setting of 2-wire or 4-wire transmitter For each channel by setting pin
- HART communication is available

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Specification

Number of input channels		16, isolated
Input signal		Input signal 4 to 20 mA
Allowable input current		24 mA
Withstanding voltage		Between input and system: 1500 V AC, for 1 minute
Accuracy		±16 µA
Data update period		10 ms
Transmitter power supply		19.0 V or higher (at 20 mA) 25.5 V or less (at 0 mA) (output current limit: 25 mA)
Setting of 2-wire or 4-wire transmitter		For each channel by setting pin
Drift due to ambient temperature change		±16 µA/10 ˚C
Maximum current consumption		230 mA (5 V DC), 540 mA (24 V DC)
Input resistance	Power ON	270 Ω (20 mA) to 350 Ω (4 mA)
	Power OFF	500 kΩ or larger
HART communication		Available

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
Connection technology	Pressure clamp terminal, MIL connector cable, dedicated cable (KS1)

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