# RAMONA Analog I/O Module

Model: AAI2835-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 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. HART communication is available (at current input) for these modules.

## Key Future

- 4, Isolated Input Channels
- Input Signal is 4 to 20 mA
- Accuracy is ±16µA
- 4, Isolated Output Channels
- Output Signal is 4 to 20 mA
- Accuracy is ±48µA
- Data update period is 10ms
- HART communication is Available


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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)<br>±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 |
| 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 |


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