

ADAM-4021 ADAM-4015 ADAM-4024

1-ch Analog Output Module

6-ch RTD Module with Modbus

4-ch Analog Output Module with Modbus



ADAM-4021



ADAM-4015



ADAM-4024



Specifications

General

- Connectors** 2 x plug-in terminal blocks (#14 ~ 22 AWG)
- Power Consumption** 1.4 W @ 24 V_{DC}
- Watchdog Timer** System (1.6 second)
- Supported Protocols** ASCII command

Analog Output

- Channels** 1
- Output Impedance** 0.5 Ω
- Output Range** 0 ~ 20 mA, 4 ~ 20 mA, 0 ~ 10 V
- Output Type** mA, V
- Accuracy** ±0.1% of FSR for current output
±0.2% of FSR for voltage output
- Current Load Resistor** 0 to 500 Ω (source)
- Resolution** 12-bit
- Isolation Voltage** 3,000 V_{DC}
- Programmable Output Slope** 0.125 ~ 128 mA/sec.
0.0625 ~ 64.0 V/sec.
- Readback Accuracy** ±1% of FSR
- Span Temperature Coefficient** ±25 ppm/°C
- Zero Drift** Voltage output: ±30 μV/°C
Current output: ±0.2 μA/°C

Specifications

General

- Connectors** 2 x plug-in terminal blocks (#14 ~ 28 AWG)
- Power Consumption** 1.2 W @ 24 V_{DC}
- Watchdog Timer** System (1.6 s) & Communication
- Supported Protocols** ASCII command and Modbus/RTU
- Burnout Detection** Yes

Analog Input

- Channels** 6 differential
- Input Connections** 2, 3-wire
- Input Impedance** 10 MΩ
- Input Type** Pt, Balco and Ni RTD
- RTD Types and Temperature Ranges**
 - Pt 100 RTD:**
 - Pt -50°C to 150°C
 - Pt 0°C to 100°C
 - Pt 0°C to 200°C
 - Pt 0°C to 400°C
 - Pt -200°C to 200°C
 - IEC RTD 100 ohms (a = 0.00385)
 - JIS RTD 100 ohms (a = 0.00392)
 - Pt 1000 RTD**
 - Pt -40°C to 160°C
 - Balco 500 RTD**
 - 30°C to 120°C
 - Ni 50 RTD**
 - Ni -80°C to 100°C
 - Ni 508 RTD**
 - Ni 0°C to 100°C
 - BA1**
 - 200°C to 600°C
- Accuracy** ±0.1% (Typical)
- CMR @ 50/60 Hz** 120 dB
- Span Drift** ±25 ppm/°C
- Zero Drift** ±3 μV/°C

Specifications

General

- Connectors** 2 x plug-in terminal blocks (#14 ~ 28 AWG)
- Power Consumption** 3 W @ 24 V_{DC}
- Watchdog Timer** System (1.6 second) & Communication
- Supported Protocols** ASCII command and Modbus/RTU

Analog Output

- Channels** 4
- Output Impedance** 0.5 Ω
- Output Range** 0 ~ 20 mA, 4 ~ 20 mA, ±10 V
- Output Type** mA, V (Differential)
- Accuracy** ±0.1 % of FSR for current output
±0.1 % of FSR for voltage output
- Current Load Resistor** Max. 500 Ω (source)
- Voltage Load Resistor** Min. 1K Ω
- Resolution** 12-bit
- Isolation Voltage** 3,000 V_{DC}
- Programmable Output Slope** 0.125 ~ 128 mA/sec.
0.0625 ~ 64.0 V/sec.
- Span Temperature Coefficient** ±25 ppm/°C
- Zero Drift** Voltage output: ±30 μV/°C
Current output: ±0.2 μA/°C

Digital Input

- Channels** 4
- Input Level** Logic level 0: 1 V max.
Logic level 1: 10 ~ 30 V_{DC}
- Isolation Voltage** 3,000 V_{DC}

Common Specifications

General

- Power Input** Unregulated 10 ~ 30 V_{DC}

Environment

- Operating Humidity** 5 ~ 95% RH
- Operating Temperature** -10 ~ 70°C (14 ~ 185°F)
- Storage Temperature** -25 ~ 85°C (-13 ~ 185°F)

Ordering Information

- ADAM-4021** 1-ch Analog Output Module
- ADAM-4015** 6-ch RTD Module with Modbus
- ADAM-4024** 4-ch Analog Output Module with Modbus