

# 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<sub>DC</sub>
- 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<sub>DC</sub>
- 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<sub>DC</sub>
- 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<sub>DC</sub>
- 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 ~ 20mA, ±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<sub>DC</sub>
- 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<sub>DC</sub>
- Isolation Voltage 3,000 V<sub>DC</sub>

## Common Specifications

### General

- Power Input Unregulated 10 ~ 30 V<sub>DC</sub>

### 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