

ADAM-4021 ADAM-4022T ADAM-4024

1-ch Analog Output Module

2-ch Serial Based Dual Loop PID Controller with Modbus

4-ch Analog Output Module with Modbus



ADAM-4021



ADAM-4022T



ADAM-4024



ADVANTECH
Premier Partner

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

Common Specifications

General

- Power Input Unregulated 10 ~ 30 V_{DC}

Environment

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

Specifications

General

- Connectors 2 x plug-in terminal blocks (#14 ~ 28 AWG)
- Power Consumption 4 W @ 24 V_{DC}
- Watchdog Timer System (1.6 second)
- Supported Protocols ASCII command and Modbus/RTU

Analog Input (Only AI0 and AI2 are the PID input)

- Channels 4
- Input Type mA, V, Thermistor, RTD
- Input Range 0 ~ 20 mA, 4 ~ 20 mA, 0 ~ 10 V
- Thermistor Type and Temperature Ranges
Thermistor 3 K (NTC): 0 ~ 100°C
Thermistor 10 K (NTC): 0 ~ 100°C
- RTD Type and Temperature Ranges
Pt 100 RTD
Pt 0 ~ 100°C Pt -100 ~ 100°C
Pt 0 ~ 600°C Pt 0 ~ 200°C
IEC RTD 100 ohms (a = 0.00385)
JIS RTD 100 ohms (a = 0.00392)
Pt 1000 RTD Pt -40 ~ 160°C
- Resolution 16-bit
- Sampling Rate 10 sample/second
- Isolation Voltage 3,000 V_{DC}

Analog Output

- Channels 2
- Output Range 0 ~ 20 mA, 4 ~ 20 mA, 0 ~ 10 V
- Output Type mA, V
- Resolution 12-bit
- Isolation Voltage 3,000 V_{DC}

Digital Input

- Channels 2
- Dry Contact Logic level 0-close to GND
Logic level 1-open

Digital Output

- Channels 2
- Power Dissipation Open Collector to 30 V,
30 mA max. load
300 mW

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 ~ 20mA, ±10 V
- Output Type mA, V
- Accuracy ±0.1 % of FSR for current output
±0.1 % 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.
- 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}

Ordering Information

- ADAM-4021 1-ch Analog Output Module
- ADAM-4022T 2-ch Serial Based Dual Loop PID Controller w/ Modbus
- ADAM-4024 4-ch Analog Output Module with Modbus

1
WebAccess+ Solutions

2
Machine Automation

3
Energy Automation

4
Building Automation Systems

5
Automation Software

6
Operator Panels

7
Automation Panel PCs

8
Industrial Panel Computers & Panel PC

9
Industrial Monitors

10
Industrial Wireless Solutions

11
Industrial Ethernet Solutions

12
Serial Device Servers and IP Gateways

13
Serial Communication Cards

14
Embedded Automation Computers

15
PACs

16
Compact PCI Systems

17
M2M I/O Modules

18
RS-485 I/O Modules