

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



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

- **Operating 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 (α = 0.00385)
 - JIS RTD 100 ohms (α = 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 (Differential)
- **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



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