

ADAM-4021

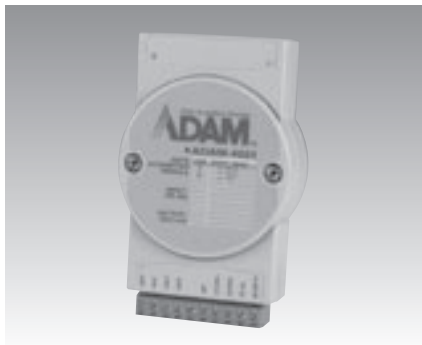
ADAM-4022T

ADAM-4024

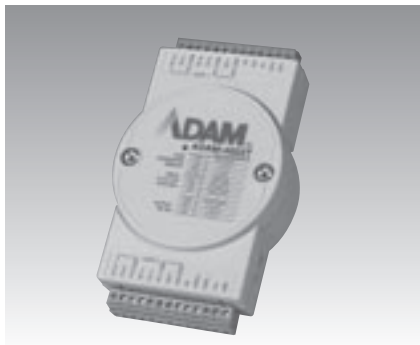
1-ch Analog Output Module

2-ch Serial Based Dual Loop PID Controller with Modbus®

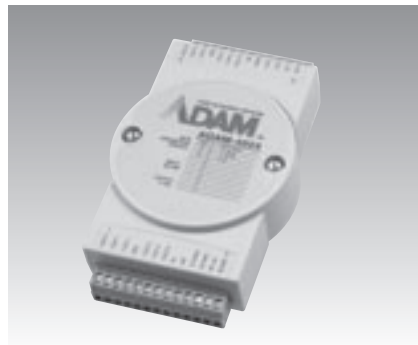
4-ch Analog Output Module with Modbus



ADAM-4021



ADAM-4022T



ADAM-4024



Specifications

General

- **Connectors** 2 x Plug-in terminal block (#14 ~ 22 AWG)
- **Power Consumption** 1.4 W @ 24 V_{DC}
- **Watchdog Timer** System (1.6 second)
- **Support Protocol** 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** 3000 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 block (#14 ~ 28 AWG)
- **Power Consumption** 4 W @ 24 V_{DC}
- **Watchdog Timer** System (1.6 second)
- **Support Protocol** ASCII command and Modbus/RTU

Analog 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 3K: 0 ~ 100° C
 - Thermistor 10K: 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** 3000 V_{DC}

Analog Output

- **Channels** 2
- **Output Range** 0 ~ 20 mA, 4 ~ 20 mA, 0 ~ 10 V mA, V
- **Output Type** mA, V
- **Resolution** 12-bit
- **Isolation Voltage** 3000 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
- **Support Protocol** 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** 3000 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: +1V max
Logic level 1: 10 ~ 30 V_{DC}
- **Isolation Voltage** 3000 V_{DC}

Common Specifications

General

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

Environment

- **Humidity** 5 ~ 95% RH
- **Operating Temperature** - 10 ~ 70° C
(14 ~ 158° F)
- **Storage Temperature** - 25 ~ 85° C
(-13 ~ 185° F)

Ordering Information

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