

ADAM-4021 ADAM-4022T ADAM-4024

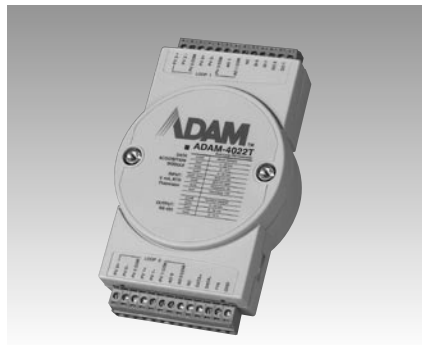
Analog Output Module

Serial Based Dual Loop PID Controller

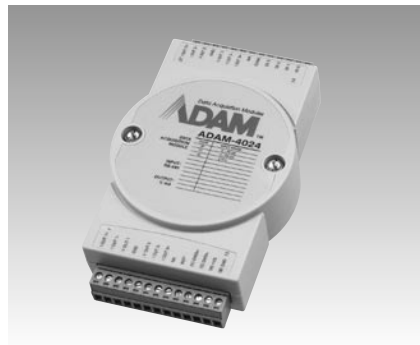
4-channel Analog Output Module with Modbus®



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}

Analog Output

- **Accuracy** ±0.1% of FSR for current output
±0.2% of FSR for voltage output
- **Current Load Resistor** 0 to 500 Ω (source)
- **Effective Resolution** 12-bit
- **Isolation Protection** 3000 V_{DC}
- **Output Impedance** 0.5 Ω
- **Output Range** 0 to 20 mA, 4 to 20 mA, and 0 to 10 V mA, V
- **Output Type** mA, V
- **Programmable Output Slope** 0.125 ~ 128 mA/sec.
0.0625 ~ 64.0 V/sec.
- **Readback Accuracy** ±1% of FSR
- **Resolution** ±0.015% 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 ~ 22 AWG)
- **Power Consumption** 4 W @ 24 V_{DC}
- **Surge Protection** 3,000 V_{DC}

Analog Input

- **Channels** 4
- **Input Type** mA, V, Thermistor, RTD
- **Input Range** 0 to 20 mA, 4 to 20 mA, 0 to 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 (α = 0.00385)
JIS RTD 100 ohms (α = 0.00392)
Pt 1000 RTD Pt -40 ~ 160° C

Analog Output

- **Channels** 2
- **Output Range** 0 to 20 mA, 4 to 20 mA, 0 to 10 V mA, V
- **Output Type** mA, V

Digital Input

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

Digital Output

- **Channels** 2
Open Collector to 30 V, 100 mA max. load

Specifications

General

- **Connectors** 2 x plug-in terminal blocks (#14 ~ 28 AWG)
- **Power Consumption** 3 W @ 24 V_{DC}

Analog Output

- **Accuracy** ±0.1 % of FSR for current output
±0.1 % of FSR for voltage output
- **Channels** 4
- **Current Load Resistor** 0 to 500 Ω (source)
- **Effective Resolution** 12-bit
- **Isolated Digital Input** Channel: 4
level 0: +1 V max
level 1: 10 ~ 30 V_{DC}
- **Isolation Protection** 3000 V_{DC}
- **Output Impedance** 0.5 Ω
- **Output Range** 0 to 20 mA, 4 to 20 mA, ±10 V mA, V
- **Output Type** mA, V
- **Programmable Output Slope** 0.125 ~ 128 mA/sec.
0.0625 ~ 64.0 V/sec.
- **Resolution** ±0.015 % of FSR
- **Span Temperature Coefficient** ±25 ppm/°C
- **Zero Drift** Voltage output: ±30 μV/°C
Current output: ±0.2 μA/°C

Common Specifications

General

- **Dimensions (WxHxD)** 70 x 122 x 30 mm
- **Enclosure** ABS + PC
- **Mounting** DIN 35 rail, stack, wall
- **Power Input** Unregulated 10~30 V_{DC}
- **Watchdog Timer** 1.6 sec. (system)

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** Analog Output Module – V or mA
- **ADAM-4022T** Serial Based Dual Loop PID Controller
- **ADAM-4024** 4-channel Analog Output Module w/Modbus®, V or mA