

# ADAM-6022

# ADAM-6024

Ethernet-based Dual-loop PID Controller

12-ch Isolated Universal Input/Output Module



ADAM-6022



## Specifications

### General

- Loop Number 2 (3 AI, 1 AO, 1 DI, 1 DO for each control loop)

### Analog Input

- Channels 6 (differential)
- Input Range  $\pm 10 V_{DC}$ , 0 ~ 20 mA, 4 ~ 20 mA

### Analog Output

- Channels 2
- Output Type V, mA
- Output Range 0 ~ 10  $V_{DC}$ , 4 ~ 20 mA, 0 ~ 20 mA

### Digital Input

- Channels 2
- Dry Contact Logic level 0: close to GND  
Logic level 1: open
- Wet Contact Logic level 0: 0 ~ 3  $V_{DC}$   
Logic level 1: 10 ~ 30  $V_{DC}$

### Digital Output

- Channels 2
- Open Collector to 30 V, 100 mA maximum load
- Power Dissipation 300 mW for each module

## Ordering Information

- ADAM-6022 Ethernet-based Dual-loop PID Controller



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### Digital Input

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- Dry Contact Logic level 0: close to GND  
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### Digital Output

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### Supports

- Peer-to-Peer (Receiver only)
- GCL (Receiver only)

## Ordering Information

- ADAM-6024 12-ch Isolated Universal I/O Module

## Common Specifications

### General

- LAN 10/100Base-T(X)
- Power Consumption 4 W @ 24  $V_{DC}$
- Connectors 1 x RJ-45 (LAN), Plug-in screw terminal block (I/O and power)
- Watchdog System (1.6 second) and Communication (programmable)
- Power Input 10 ~ 30  $V_{DC}$
- Supports Modbus/TCP, TCP/IP, UDP and HTTP Protocols

### Analog Input

- Input Impedance 20 M $\Omega$
- Accuracy  $\pm 0.1\%$  of FSR
- Resolution 16-bit
- Sampling Rate 10 sample/second
- CMR @ 50/60 Hz 90 dB
- NMR @ 50/60 Hz 60 dB
- Span Drift  $\pm 25$  ppm/ $^{\circ}$ C
- Zero Drift  $\pm 6$   $\mu$ V/ $^{\circ}$ C

### Analog Output

- Accuracy  $\pm 0.1\%$  of FSR
- Resolution 12-bit
- Drift  $\pm 50$  ppm/ $^{\circ}$ C
- Current Load Resistor 0 ~ 500 $\Omega$

### Protection

- Isolation Protection 2,000  $V_{DC}$
- Built-in TVS/ESD Protection
- Over Voltage Protection  $\pm 35 V_{DC}$
- Power Reversal Protection

### Environment

- Operating Temperature -10 ~ 50 $^{\circ}$ C
- Storage Temperature -20 ~ 80 $^{\circ}$ C
- Humidity (Operating) 20 ~ 95% RH (non-condensing)
- Humidity (Storage) 0 ~ 95% RH (non-condensing)