

# ADAM-6022

# ADAM-6024

## Ethernet-based Dual-loop PID Controller

## 12-ch Isolated Universal Input/Output

## Modbus TCP 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 max. load
- **Power Dissipation** 300 mW for each module

### Ordering Information

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



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### Specifications

#### Analog Input

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#### 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  $V_{DC}$   
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#### Digital Output

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- **Power Dissipation** 300 mW for each module

#### Supports

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

### Ordering Information

- **ADAM-6024** 12-ch Isolated Universal I/O Modbus TCP Module

- 19 Embedded Controllers
- 20 PC-based Controllers
- 21 PAC
- 22 Motion Control
- 23 RS-485 I/O
- 24 Ethernet I/O
- 25 Building Automation
- 26 Self-service Terminals
- 27 eHome Platforms

Common Specifications	
<b>General</b>	
▪ 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	
<b>Analog Input</b>	
▪ 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
<b>Analog Output</b>	
▪ Accuracy	$\pm 0.1\%$ of FSR
▪ Resolution	12-bit
▪ Drift	$\pm 50$ ppm/ $^{\circ}$ C
▪ Current Load Resistor	0 ~ 500 $\Omega$
<b>Protection</b>	
▪ Isolation Protection	2,000 $V_{DC}$
▪ Built-in TVS/ESD Protection	
▪ Over Voltage Protection	$\pm 35 V_{DC}$
▪ Power Reversal Protection	
<b>Environment</b>	
▪ Operating Temperature	-10 ~ 50 $^{\circ}$ C (14 ~ 122 $^{\circ}$ F)
▪ Storage Temperature	-20 ~ 80 $^{\circ}$ C (-4 ~ 176 $^{\circ}$ F)
▪ Operating Humidity	20 ~ 95% RH (non-condensing)
▪ Storage Humidity	0 ~ 95% RH (non-condensing)