

# ADAM-6022

# ADAM-6024

Ethernet-based Dual-loop PID Controller  
12-ch Isolated Universal Input/Output  
Modbus TCP Module



Vertrieb durch **AMC**  
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## 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

## ADAM-6024



### Specifications

- Analog Input**
- **Channels** 6 (differential)
  - **Input Range**  $\pm 10 V_{DC}$ , 0 ~ 20 mA, 4 ~ 20 mA
- Analog Output**
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  - **Output Type** V, mA
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- Digital Input**
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  - **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
- Supports**
- **Peer-to-Peer (Receiver only)**
  - **GCL (Receiver only)**

### Ordering Information

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

Common Specifications	
<b>General</b>	
▪ <b>LAN</b>	10/100Base-T(X)
▪ <b>Power Consumption</b>	4 W @ 24 $V_{DC}$
▪ <b>Connectors</b>	1 x RJ-45 (LAN), Plug-in screw terminal block (I/O and power)
▪ <b>Watchdog</b>	System (1.6 second) and Communication (programmable)
▪ <b>Power Input</b>	10 ~ 30 $V_{DC}$
▪ <b>Supports Modbus/TCP, TCP/IP, UDP and HTTP Protocols</b>	
<b>Analog Input</b>	
▪ <b>Input Impedance</b>	20 M $\Omega$
▪ <b>Accuracy</b>	$\pm 0.1\%$ of FSR
▪ <b>Resolution</b>	16-bit
▪ <b>Sampling Rate</b>	10 sample/second
▪ <b>CMR @ 50/60 Hz</b>	90 dB
▪ <b>NMR @ 50/60 Hz</b>	60 dB
▪ <b>Span Drift</b>	$\pm 25$ ppm/ $^{\circ}$ C
▪ <b>Zero Drift</b>	$\pm 6$ $\mu$ V/ $^{\circ}$ C
<b>Analog Output</b>	
▪ <b>Accuracy</b>	$\pm 0.1\%$ of FSR
▪ <b>Resolution</b>	12-bit
▪ <b>Drift</b>	$\pm 50$ ppm/ $^{\circ}$ C
▪ <b>Current Load Resistor</b>	0 ~ 500 $\Omega$
<b>Protection</b>	
▪ <b>Isolation Protection</b>	2,000 $V_{DC}$
▪ <b>Built-in TVS/ESD Protection</b>	
▪ <b>Over Voltage Protection</b>	$\pm 35 V_{DC}$
▪ <b>Power Reversal Protection</b>	
<b>Environment</b>	
▪ <b>Operating Temperature</b>	-10 ~ 50 $^{\circ}$ C (14 ~ 122 $^{\circ}$ F)
▪ <b>Storage Temperature</b>	-20 ~ 80 $^{\circ}$ C (-4 ~ 176 $^{\circ}$ F)
▪ <b>Operating Humidity</b>	20 ~ 95% RH (non-condensing)
▪ <b>Storage Humidity</b>	0 ~ 95% RH (non-condensing)

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