

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
Logic level 0: 0 ~ 3 V_{DC}
Logic level 1: 10 ~ 30 V_{DC}
- Wet Contact

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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Supports

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

Ordering Information

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

Common Specifications

General

- Certification CE, FCC, UL
- 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, RESTful (D version), MQTT (D version), SNMP (D version)

Analog Input

- Input Impedance 20 M Ω
- 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 ± 25 ppm/ $^{\circ}$ C
- Zero Drift ± 6 μ V/ $^{\circ}$ C

Analog Output

- Accuracy $\pm 0.1\%$ of FSR
- Resolution 12-bit
- Drift ± 50 ppm/ $^{\circ}$ C
- Current Load Resistor Max. 500 Ω
- Voltage Load Resistor Min. 1K Ω

Protection

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

Environment

- Operating Temperature -10 ~ 50 $^{\circ}$ C (14 ~ 122 $^{\circ}$ F)
D version: -40 ~ 70 $^{\circ}$ C (-40~158 $^{\circ}$ F)
- Storage Temperature -20 ~ 80 $^{\circ}$ C (-4 ~ 176 $^{\circ}$ F)
D version: -40 ~ 80 $^{\circ}$ C (-40~176 $^{\circ}$ F)
- Operating Humidity 20 ~ 95% RH (non-condensing)
- Storage Humidity 0 ~ 95% RH (non-condensing)

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