ADAM-6022
Ethernet-based Dual-loop PID Controller
12-ch Isolated Universal Input/Output Modbus TCP Module

ADAM-6024
12-ch Isolated Universal Input/Output Modbus TCP Module

Specifications

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

Analog Input
- Channels: 6 (differential)
- Input Range: ±10 VDC, 0 ~ 20 mA, 4 ~ 20 mA

Analog Output
- Channels: 2
- Output Type: V, mA
- Output Range: 0 ~ 10 VDC, 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 VDC, Logic level 1: 10 ~ 30 VDC

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: 12-ch Isolated Universal I/O Modbus TCP Module

Common Specifications

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

Analog Input
- Input Impedance: 20 MΩ
- Accuracy: ±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/°C
- Zero Drift: ±6 μV/°C

Analog Output
- Accuracy: ±0.1% of FSR
- Resolution: 12-bit
- Drift: ±50 ppm/°C
- Current Load Resistor: Max. 500Ω
- Voltage Load Resistor: Min. 1KΩ

Protection
- Isolation Protection: 2,000 VDC
- Built-in TVS/ESD Protection
- Over Voltage Protection: ±35 VDC
- Power Reversal Protection

Environment
- Operating Temperature: -10 ~ 50°C (14 ~ 122°F)
- Storage Temperature: -20 ~ 80°C (-4 ~ 176°F)
- Operating Humidity: 20 ~ 95% RH (non-condensing)
- Storage Humidity: 0 ~ 95% RH (non-condensing)

All product specifications are subject to change without notice.
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