

ADAM-6017

ADAM-6018

ADAM-6024

8-channel Analog Input w/DO Module

8-channel Thermocouple Input w/DO Module

12-channel Universal Input/Output Module



ADAM-6017

CE FCC



ADAM-6018

CE FCC



ADAM-6024

CE FCC

Specifications

General

- Power Consumption 2 W
- Watchdog Timer Yes, programmable (Comm.)

Analog Input

- Channels 8 differential
- Input Impedance 20 M Ω
- Input Type mV, V, mA
- Input Range ± 150 mV, ± 500 mV, ± 5 V, ± 10 V, 0-20 mA, 4-20 mA
- Isolation Voltage 2000 V_{DC}
- Sampling Rate 10 samples/sec.

Digital Output

- Channels 2
Open Collector to 30 V
100 mA max. load
- Optical Isolation 2,000V_{RMS}

Protection

- Fault and Overvoltage Protection Withstands overvoltage up to ± 35 V

Ordering Information

- ADAM-6017 8-channel Analog Input with DO Module

Specifications

General

- Power Consumption 2 W
- Watchdog Timer Yes, programmable (Comm.)

Analog Input

- Channels 8 differential
- Input Impedance 10 k Ω
- Input Type Thermocouple
- Isolation Voltage 2000 V_{DC}
- Thermocouple Type and Thermocouple Range:

| | | | |
|---|------|---|---------|
| J | 0 | ~ | 760° C |
| K | 0 | ~ | 1370° C |
| T | -100 | ~ | 400° C |
| E | 0 | ~ | 1000° C |
| R | 500 | ~ | 1750° C |
| S | 500 | ~ | 1750° C |
| B | 500 | ~ | 1800° C |
- Sampling Rate 10 samples/sec.

Digital Output

- Channels 8
Open Collector to 30 V
100 mA max. load
- Optical Isolation 2,000 V_{RMS}

Protection

- Fault and Overvoltage Protection Withstands overvoltage up to ± 35 V

Ordering Information

- ADAM-6018 8-channel thermocouple input with DO module

Specifications

General

- Power Consumption 4 W (typical)

Analog Input

- Channels 6 differential
- Input Impedance 20 M Ω
- Input Range ± 10 V_{DC}, 0 ~ 20 mA, 4 ~ 20 mA
- Isolation Protection 2,000 V_{DC}
- Sampling Rate 10 samples/sec.

Analog Output

- Accuracy 0.05% of FSR
- Channels 2
- Drift ± 50 ppm/ $^{\circ}$ C
- Drive Voltage 15 V_{DC} (current output)
- Isolation Voltage 2,000 V_{DC}
- Output Range 0 ~ 10 V_{DC}, 4 ~ 20 mA, 0 ~ 20 mA
- Resolution 12 bits

Digital Inputs

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

Digital Outputs

- Channels 2, Open Collector to 30 V, 100 mA max. load

Ordering Information

- ADAM-6024 12-channel Universal Input/Output Module

Common Specifications

General

- Certifications CE, FCC class A
- Dimensions (WxHxD) 70 x 112 x 25 mm
- Connectors 1 x RJ-45 (LAN)
Plug-in screw terminal block (I/O, and power)
- Enclosure ABS+PC
- LAN 10/100Base-T
- LED Indicators Power and communication

- Mounting DIN 35 rail, stack, wall
- Power Input Unregulated 10~30 V_{DC}

Analog Input

- Accuracy $\pm 0.1\%$ or better
- Bandwidth 13.1 Hz @ 50 Hz, 15.72 Hz @ 60 Hz
- CMR @ 50/60 Hz 92 dB min.
- Resolution 16 bits
- Span Drift ± 25 ppm/ $^{\circ}$ C
- Zero Drift ± 6 μ V/ $^{\circ}$ C

Environment

- Humidity (Operating) 20 ~ 95% RH (non-condensing)
- Humidity (Storage) 0 ~ 95% RH (non-condensing)
- Operating Temperature ADAM-6017/6018: -10 ~ 70° C
ADAM-6024: -10 ~ 50° C
- Storage Temperature -20 ~ 80° C