

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

Analog Input

- **Effective Resolution** 16-bit
- **Channels** 8 differential
- **Input Type** mV, V, mA
- **Input Range** ± 150 mV, ± 500 mV, ± 5 V, ± 10 V, 0-20 mA, 4-20 mA
- **Isolation Voltage** $2000 V_{DC}$
- **Fault and Overvoltage Protection** Withstands overvoltage up to ± 35 V
- **Sampling Rate** 10 samples/sec.
- **Input Impedance** 20 M Ω
- **Bandwidth** 13.1 Hz @ 50 Hz, 15.72 Hz @ 60 Hz
- **Accuracy** $\pm 0.1\%$ or better
- **Zero Drift** $\pm 6 \mu V/^{\circ}C$
- **Span Drift** ± 25 ppm/ $^{\circ}C$
- **CMR @ 50/60 Hz** 92 dB min.

Digital Output

- **Channels** 2
Open Collector to 30 V
100 mA max. load
- **Optical Isolation** $2000V_{RMS}$

Power

- **Power Requirements** Unregulated $+10 \sim +30 V_{DC}$
- **Power Consumption** 2 W
- **Built-in Watchdog Timer**

Ordering Information

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

Specifications

Analog Input

- **Effective Resolution** 16-bit
- **Channels** 8 differential
- **Input Type** Thermocouple
- **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 |
- **Isolation Voltage** $2000 V_{DC}$
- **Fault and Overvoltage Protection** Withstands overvoltage up to ± 35 V
- **Sampling Rate** 10 samples/sec.
- **Input Impedance** 10 k Ω
- **Bandwidth** 13.1 Hz @ 50 Hz, 15.72 Hz @ 60 Hz
- **Accuracy** $\pm 0.1\%$ or better
- **Zero Drift** $\pm 6 \mu V/^{\circ}C$
- **Span Drift** ± 25 ppm/ $^{\circ}C$
- **CMR @ 50/60 Hz** 92 dB min.

Digital Output

- **Channels** 8
Open Collector to 30 V
100 mA max. load
- **Optical Isolation** $2000 V_{RMS}$

Power

- **Power Requirements** Unregulated $+10 \sim +30 V_{DC}$
- **Power Consumption** 2 W
- **Built-in Watchdog Timer**

Ordering Information

- **ADAM-6018** 8-ch. Thermocouple Input with DO Module

Specifications

Analog Input

- **Channels** 6 differential
- **Effective Resolution** 16-bit
- **Input Range** $\pm 10 V_{DC}$, 0 ~ 20 mA, 4 ~ 20 mA
- **Isolation Voltage** $2000 V_{DC}$
- **Sampling Rate** 10 samples/sec.
- **Input Impedance** 20 M Ω
- **Bandwidth** 13.1 Hz @ 50 Hz, 15.72 Hz @ 60 Hz
- **Accuracy** $\pm 0.1\%$ or better
- **Zero Drift** $\pm 6 \mu V/^{\circ}C$
- **Span Drift** ± 25 ppm/ $^{\circ}C$
- **CMR @ 50/60 Hz** 92 dB min.

Analog Output

- **Channels** 2
- **Effective Resolution** 12-bit
- **Output Range** $0 \sim 10 V_{DC}$, 4 ~ 20 mA, 0 ~ 20 mA
- **Drive Voltage** $15 V_{DC}$ (for current output)
- **Isolation Voltage** $2000 V_{DC}$
- **Accuracy** 0.05% of FSR
- **Drift** ± 50 ppm/ $^{\circ}C$

Digital Inputs

- **Channels** 2
Dry Contact
logic level 0: close to GND
logic level 1: open
Wet Contact:
Logic level 0: $+3V_{max}$
Logic level 1: $+10$ V to $30 V_{DC}$

Digital Outputs

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

Power

- **Power Consumption** 4 W (typical)

Ordering Information

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