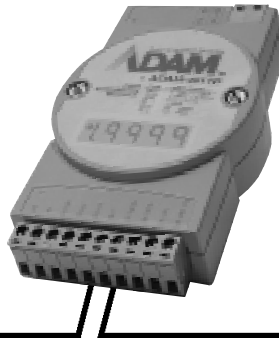
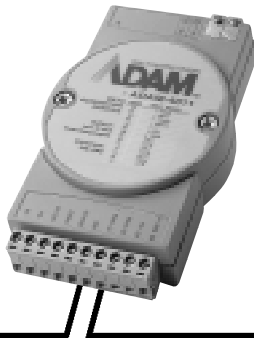


ADAM-4011
ADAM-4011D
ADAM-4012

Thermocouple Input Module
Thermocouple Input Module with LED Display
Analog Input Module



ADAM-4011
Thermocouple Input Module

Analog Input

- Effective resolution: 16-bit
- Input type: Thermocouple, mV, V or mA
- Input range: ± 15 mV, ± 50 mV, ± 100 mV, ± 500 mV, ± 1 V, ± 2.5 V, ± 20 mA
- T/C type and temperature 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: 3000 V_{DC}
- Input surge protection: yes
- Sampling rate: 10 samples/sec.
- Input impedance: 2 M Ω
- Bandwidth: 2.62 Hz
- Accuracy: $\pm 0.05\%$ for voltage input
- Zero drift: ± 3 μ V/ $^{\circ}$ C
- Span drift: ± 25 ppm/ $^{\circ}$ C
- CMR @ 50/60 Hz: 150 dB
- NMR @ 50/60 Hz: 100 dB

Digital Input

- Channels: 1
(See specifications of ADAM-4012)
- Event counter:
(See specifications of ADAM-4012)

Digital Output

- Channels: 2
(See specifications of ADAM-4012)

Built-in Watchdog Timer

Power

- Power requirements:
Unregulated +10 ~ +30 V_{DC}
- Power consumption: 1.2 W

ADAM-4011D
Thermocouple Input Module with LED Display

Analog Input

- Effective resolution: 16-bit
- Input type: Thermocouple, mV, V or mA
- Input range: same as ADAM-4011
- T/C type and temperature range: same as ADAM-4011
- Isolation voltage: 3000 V_{DC}
- Input surge protection: Yes
- Thermocouple open detection: Yes
- Sampling rate: 10 samples/sec.
- Input impedance: 2 M Ω
- Bandwidth: 2.62 Hz
- Accuracy: $\pm 0.05\%$ for voltage input
- Zero drift: ± 3 μ V/ $^{\circ}$ C
- Span drift: ± 25 ppm/ $^{\circ}$ C
- CMR @ 50/60 Hz: 150 dB
- NMR @ 50/60 Hz: 100 dB

Display

- LED indicator: 4½ - digit readout

Digital Input

- Channels: 1
(See specifications of ADAM-4012)
- Event counter:
(See specifications of ADAM-4012)

Digital Output

- Channels: 2
(See specifications of ADAM-4012)

Built-in Watchdog Timer

Power

- Power requirements:
Unregulated +10 ~ +30 V_{DC}
- Power consumption: 1.4 W

ADAM-4012
Analog Input Module

Analog Input

- Effective resolution: 16-bit
- Input type: mV, V or mA
- Input range: ± 150 mV, ± 500 mV, ± 1 V, ± 5 V, ± 10 V and ± 20 mA
- Isolation voltage: 3000 V_{DC}
- Sampling rate: 10 samples/sec.
- Input impedance: 2 M Ω
- Bandwidth: 2.62 Hz
- Accuracy: $\pm 0.05\%$ or better
- Zero drift: ± 6 μ V/ $^{\circ}$ C
- Span drift: ± 25 ppm/ $^{\circ}$ C
- CMR @ 50/60 Hz: 150 dB
- NMR @ 50/60 Hz: 100 dB

Digital Input

- Channels: 1
Logic level 0: +1 V max.
Logic level 1: +3.5 V ~ +30 V
Pull up current: 0.5 mA,
10 k Ω resistor to +5 V
- Event counter:
Max. input frequency: 50 Hz
Min. input pulse width: 1 msec.

Digital Output

- Channels: 2
Open collector to 30 V,
30 mA max. load
Power dissipation: 300 mW

Built-in Watchdog Timer

Power

- Power requirements:
Unregulated +10 ~ +30 V_{DC}
- Power consumption: 1.2 W