

ADAM-4011/4011D

ADAM-4012

ADAM-4013

1-ch Thermocouple Input Modules
(with 7-segment LED Display)

1-ch Analog Input Module

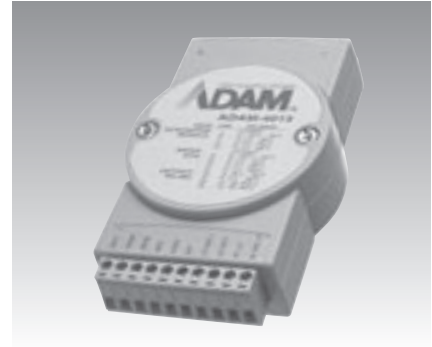
1-ch RTD Input Module



ADAM-4011/4011D



ADAM-4012



ADAM-4013



Specifications

General

- Power Consumption 1.4 W @ 24 V_{DC}
- Support Protocol ASCII command
- LED Indicators 5-digit (ADAM-4011D)

Analog Input

- Channels 1
- Input Impedance Voltage: 2 M Ω
Current: 125 Ω
(Added by users)
- Input Type T/C, mV, V or mA
- Input Range ± 15 mV, ± 50 mV, ± 100 mV,
 ± 500 mV, ± 1 V,
 ± 2.5 V, ± 20 mA
- Accuracy Voltage mode: $\pm 0.1\%$ or
better
Current mode: $\pm 0.2\%$ or
better
- T/C Type and Temperature Range

J	0 ~ 760° C	R	500 ~ 1750° C
K	0 ~ 1370° C	S	500 ~ 1750° C
T	-100 ~ 400° C	B	500 ~ 1800° C
E	0 ~ 1000° C		

- Span Drift ± 25 ppm/ $^{\circ}$ C
- Zero Drift ± 6 μ V/ $^{\circ}$ C
- Wire Burnout Detector ADAM-4011D only

Digital Input

- Channels 1
Logic level 0: 1 V max.
Logic level 1: 3.5 ~ 30 V
Pull up current: 0.5 mA,
10 k Ω resistor to +5 V
Max. input freq: 50 Hz
- Event Counter

Digital Output

- Channels 2, open collector to
30 V, 30 mA max. load
- Power Dissipation 300 mW

Common Specifications

General

- Power Input Unregulated 10~30 V_{DC}
- Connectors 1 x Plug-in terminal
block (#14 ~ 22 AWG)
- Watchdog Timer System (1.6 second)

Analog Input

- Resolution 16-bit

Specifications

General

- Power Consumption 1.2 W @ 24 V_{DC}
- Support Protocol ASCII command

Analog Input

- Channels 1
- Input Impedance Voltage: 20 M Ω
Current: 125 Ω
(Added by users)
- Input Type mV, V or mA
- Input Range ± 150 mV, ± 500 mV, ± 1
V, ± 5 V, ± 10 V and ± 20
mA
- Accuracy Voltage mode: $\pm 0.1\%$ or
better
Current mode: $\pm 0.2\%$
or better
- Span Drift ± 25 ppm/ $^{\circ}$ C
- Zero Drift ± 6 μ V/ $^{\circ}$ C

Digital Input

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

Digital Output

- Channels 2, open collector to
30 V, 30 mA max. load
- Power Dissipation 300 mW

- Sampling Rate 10 sample/second
- CMR @ 50/60 Hz 150 dB
- NMR @ 50/60 Hz 100 dB
- Isolation Voltage 3000 V_{DC}

Environment

- Humidity 5 ~ 95% RH
- Operating Temperature -10~70° C (-14~158° F)
- Storage Temperature -25~85° C (-13~185° F)

Specifications

General

- Power Consumption 0.7 W @ 24 V_{DC}
- Support Protocol ASCII command

Analog Input

- Channels 1
- Input Connections 2, 3, or 4-wire
- Input Impedance 2 M Ω
- Input Type Pt or Ni RTD
- RTD Types and Temperature Ranges
- IEC RTD 100 ohms

Pt	-100° C	to	+100° C	a = 0.00385
Pt	0° C	to	+100° C	a = 0.00385
Pt	0° C	to	+200° C	a = 0.00385
Pt	0° C	to	+600° C	a = 0.00385

- JIS RTD 100 ohms

Pt	-100° C	to	+100° C	a = 0.003916
Pt	0° C	to	+100° C	a = 0.003916
Pt	0° C	to	+200° C	a = 0.003916
Pt	0° C	to	+600° C	a = 0.003916

- Ni RTD

Ni	-80° C	to	+100° C	
Ni	0° C	to	+100° C	

- Accuracy $\pm 0.1\%$ or better
- Span Drift ± 25 ppm/ $^{\circ}$ C
- Zero Drift ± 3 μ V/ $^{\circ}$ C

Ordering Information

- ADAM-4011 1-ch Thermocouple Input Module
- ADAM-4011D ADAM-4011 with 7-segment LED Display
- ADAM-4012 1-ch Analog Input Module
- ADAM-4013 1-ch RTD Input Module