

ADAM-4011/4011D

ADAM-4012

ADAM-4013

Thermocouple Input Module

Analog Input Module

RTD Input Module



ADAM-4011/4011D



ADAM-4012



ADAM-4013



Specifications

- **Led Indicator** 5-digit (ADAM-4011D)
- **Built-in Watchdog Timer**

Analog Input

- **Effective Resolution** 16-bit
- **Input Types** Th.couple., 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	R	500 ~ 1750° C
K	0 ~ 1370° C	S	500 ~ 1750° C
T	-100 ~ 400° C	B	500 ~ 1800° C
E	0 ~ 1000° 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** ± 0.05 % for V input
- **Zero Drift** ± 3 mV/° C
- **Span Drift** ± 25 ppm/° C
- **CMR @ 50/60 Hz** 150 dB
- **NMR @ 50/60 Hz** 100 dB

Digital Input

- **Channels** 1
Logic levels 0: 1 V max. 1: 3.5~30 V
Pull up current: 0.5 mA, 10 k Ω resistor to +5 V
- **Event Counter** Max. input freq.: 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
- **Power Consumption** 1.2 W @ 24 V_{DC}

Ordering Information

- **ADAM-4011** Thermocouple Input Module
- **ADAM-4011D** Thermocouple Input Module

Specifications

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** ± 0.05 % or better
- **Zero Drift** ± 6 mV/° C
- **Span Drift** ± 25 ppm/° 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
Max. input frequency: 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

Built-in Watchdog Timer

Power

- **Power Requirements** Unregulated 10~30 V_{DC}
- **Power Consumption** 1.2 W @ 24 V_{DC}

Ordering Information

- **ADAM-4012** Analog Input Module – mV, mA, or high voltage

Specifications

Analog Input

- **Effective Resolution** 16-bit
 - **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 | |
- **Isolation Voltage** 3000 V_{DC}
 - **Sampling Rate** 10 samples/sec.
 - **Input Impedance** 2 M Ω
 - **Bandwidth** 2.62 Hz
 - **Input Connections** 2, 3 or 4 wire
 - **Accuracy** ± 0.05 % or better
 - **Zero Drift** ± 3 mV/° C
 - **Span Drift** ± 25 ppm/° C
 - **CMR @ 50/60 Hz** 150 dB
 - **NMR @ 50/60 Hz** 100 dB

Built-in Watchdog Timer

Power

- **Power Requirements** Unregulated 10~30 V_{DC}
- **Power Consumption** 0.7 W @ 24 V_{DC}

Ordering Information

- **ADAM-4013** RTD Input Module – RTD

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