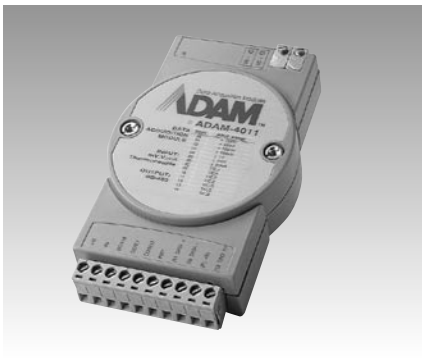
ADAM-4011
ADAM-4012
ADAM-4013

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 MΩ
- **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 kΩ 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 w/ LED Display

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 MΩ
- **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 kΩ 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 @ 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 MΩ
- **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

Last updated : January 2005