# ADAM-4011/4011D ADAM-4012 ADAM-4013

( E &

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

### 1-ch Analog Input Module

### 1-ch RTD Input Module











ROHS C E SM



ADAM-4013





## **Specifications**

#### General

**Power Consumption** 1.4 W @ 24 V<sub>DC</sub> Support Protocol ASCII command **LED Indicators** 5-digit (ADAM-4011D)

#### **Analog Input**

Channels

Input Impedance Voltage: 2 M $\Omega$ Current: 125  $\Omega$ (Added by users) Input Type T/C mV V or mA

±15 mV, ±50 mV, ±100 mV, Input Range +500 mV. +1 V. ±2.5 V, ±20 mA Accuracy Voltage mode: ±0.1% or better

Current mode: ±0.2% or

#### - 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	В	500 ~1800° C
Ε	0 ~ 1000° C		
Span Drift ±25 ppm/° C			pm/° C

Span Drift Zero Drift **Wire Burnout Detector** 

ADAM-4011D only

#### **Digital Input**

Channels

Logic level 0: 1 V max. Logic level 1: 3.5 ~ 30 V Pull up current: 0.5 mA, 10 k $\Omega$  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

### **Specifications**

1.2 W @ 24 V<sub>DC</sub> Power Consumption Support Protocol ASCII command

#### **Analog Input**

Channels

 Input Impedance Voltage: 20 M $\Omega$ 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 mΑ

Accuracy Voltage mode: ±0.1% or better

Current mode: ±0.2% or better ±25 ppm/° C  $\pm 6~\mu V/^{\circ}~C$ 

**7ern Drift** 

Channels

Span Drift

**Digital Input** 

Logic level 0: +1 V max. Logic level 1: 3.5 ~ 30 V pull up current: 0.5 mA, 10 k $\Omega$  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 300 mW

Power Dissipation

## **Specifications**

#### General

 Power Consumption 0.7 W @ 24 Vnc Support Protocol ASCII command

#### **Analog Input**

Channels 1

 Input Connections 2, 3, or 4-wire Input Impedance  $2\,\mathrm{M}\Omega$  Input Type Pt or Ni RTD

**RTD Types and Temperature Ranges** IEC RTD 100 ohms

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

JIS RTD 100 ohms

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

Ni RTD

-80° C +100° C Ni to Ni 0°C +100° C ±0.1% or better Accuracy Span Drift ±25 ppm/° C

±3 μV/° C Zero Drift

### **Common Specifications**

#### General

Unregulated 10~30 V<sub>nc</sub> Power Input Connectors 1 x Plug-in terminal blcok (#14 ~ 22 AWG) Watchdog Timer System (1.6 second)

**Analog Input** 

Resolution 16-bit 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)

#### ADAM-4011 1-ch Thermocouple Input Module ADAM-4011D ADAM-4011 with 7-segment LED Display

Ordering Information

ADAM-4012 ADAM-4013

1-ch Analog Input Module 1-ch RTD Input Module