

ADAM-4012 ADAM-4013 ADAM-4015

1-ch Analog Input Module

1-ch RTD Input Module

6-ch RTD Module with Modbus



ADAM-4012



ADAM-4013



ADAM-4015



Specifications

General

- Power Consumption 1.2 W @ 24 V_{DC}
- Supported Protocols ASCII command
- Connectors 1 x plug-in terminal block (#14 ~ 22 AWG)

Analog Input

- Channels 1
- Input Impedance Voltage: 20 M Ω
Current: 125 Ω (Added by user)
- 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
- 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

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
- Sampling Rate 10 sample/second (total)

Specifications

General

- Power Consumption 0.7 W @ 24 V_{DC}
- Supported Protocols ASCII command
- Connectors 1 x plug-in terminal block (#14 ~ 22 AWG)

Analog Input

- Channels 1
 - Input Connections 2 or 3-wire
 - Input Impedance 2 M Ω
 - Input Type Pt or Ni RTD
 - RTD Types and Temperature Ranges
- | IEC RTD 100 ohms | | | |
|------------------|-------------------|----|-------------------|
| Pt | -100 $^{\circ}$ C | to | +100 $^{\circ}$ C |
| a = | 0.00385 | | |
| Pt | 0 $^{\circ}$ C | to | +100 $^{\circ}$ C |
| a = | 0.00385 | | |
| Pt | 0 $^{\circ}$ C | to | +200 $^{\circ}$ C |
| a = | 0.00385 | | |
| Pt | 0 $^{\circ}$ C | to | +600 $^{\circ}$ C |
| a = | 0.00385 | | |
| JIS RTD 100 ohms | | | |
| Pt | -100 $^{\circ}$ C | to | +100 $^{\circ}$ C |
| a = | 0.003916 | | |
| Pt | 0 $^{\circ}$ C | to | +100 $^{\circ}$ C |
| a = | 0.003916 | | |
| Pt | 0 $^{\circ}$ C | to | +200 $^{\circ}$ C |
| a = | 0.003916 | | |
| Pt | 0 $^{\circ}$ C | to | +600 $^{\circ}$ C |
| a = | 0.003916 | | |
| Ni RTD | | | |
| Ni | -80 $^{\circ}$ C | to | +100 $^{\circ}$ C |
| Ni | 0 $^{\circ}$ C | to | +100 $^{\circ}$ C |
- Accuracy $\pm 0.1\%$ or better
 - Span Drift ± 25 ppm/ $^{\circ}$ C
 - Zero Drift ± 3 μ V/ $^{\circ}$ C
 - CMR @ 50/60 Hz 150 dB

Specifications

General

- Connectors 2 x plug-in terminal blocks (#14 ~ 28 AWG)
- Power Consumption 1.2 W @ 24 V_{DC}
- Watchdog Timer System (1.6 s) & Communication
- Supported Protocols ASCII command and Modbus/RTU
- Burn-out Detection Yes

Analog Input

- Channels 6 differential
 - Input Connections 2, 3-wire
 - Input Impedance 10 M Ω
 - Input Type Pt, Balco and Ni RTD
 - RTD Types and Temperature Ranges
- | Pt 100 RTD: | |
|--------------------------------|---------------------|
| Pt -50 $^{\circ}$ C | to 150 $^{\circ}$ C |
| Pt 0 $^{\circ}$ C | to 100 $^{\circ}$ C |
| Pt 0 $^{\circ}$ C | to 200 $^{\circ}$ C |
| Pt 0 $^{\circ}$ C | to 400 $^{\circ}$ C |
| Pt -200 $^{\circ}$ C | to 200 $^{\circ}$ C |
| IEC RTD 100 ohms (a = 0.00385) | |
| JIS RTD 100 ohms (a = 0.00392) | |
| Pt 1000 RTD | |
| Pt -40 $^{\circ}$ C | to 160 $^{\circ}$ C |
| Balco 500 RTD | |
| -30 $^{\circ}$ C | to 120 $^{\circ}$ C |
| Ni 50 RTD | |
| Ni -80 $^{\circ}$ C | to 100 $^{\circ}$ C |
| Ni 508 RTD | |
| Ni 0 $^{\circ}$ C | to 100 $^{\circ}$ C |
| BA1 | |
| -200 $^{\circ}$ C | to 600 $^{\circ}$ C |
- Accuracy $\pm 0.1\%$ (Typical)
 - CMR @ 50/60 Hz 120 dB
 - Span Drift ± 25 ppm/ $^{\circ}$ C
 - Zero Drift ± 3 μ V/ $^{\circ}$ C

Ordering Information

- ADAM-4012 1-ch Analog Input Module
- ADAM-4013 1-ch RTD Input Module
- ADAM-4015 6-ch RTD Module with Modbus