

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 MΩ
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: ±0.1% or better
Current mode: ±0.2% or better
- Span Drift ±25 ppm/°C
- Zero Drift ±6 μV/°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 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

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)

- NMR @ 50/60 Hz 100 dB
- Isolation Voltage 3,000 V_{DC}

Environment

- Operating 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}
- 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 MΩ
- 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 ±0.1% or better
- Span Drift ±25 ppm/°C
- Zero Drift ±3 μV/°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 MΩ
- Input Type Pt, Balco and Ni RTD
- RTD Types and Temperature Ranges
Pt 100 RTD:
Pt -50°C to 150°C
Pt 0°C to 100°C
Pt 0°C to 200°C
Pt 0°C to 400°C
Pt -200°C to 200°C
IEC RTD 100 ohms (a = 0.00385)
JIS RTD 100 ohms (a = 0.00392)
Pt 1000 RTD
Pt -40°C to 160°C
Balco 500 RTD
-30°C to 120°C
Ni 50 RTD
Ni -80°C to 100°C
Ni 508 RTD
Ni 0°C to 100°C
BA1
-200°C to 600°C
- Accuracy ±0.1% (Typical)
- CMR @ 50/60 Hz 120 dB
- Span Drift ±25 ppm/°C
- Zero Drift ±3 μV/°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

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508
Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050
Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28
Business Registration Number: 07699660