ADAM-4012
ADAM-4013
ADAM-4015

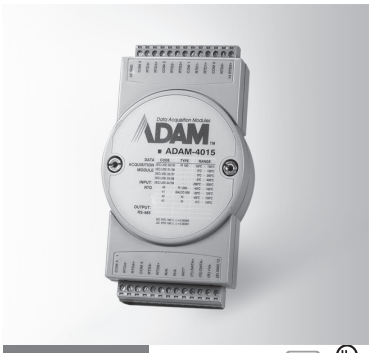
1-ch Analog Input Module

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

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

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)

Ordering Information

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

ADVANTECH | RS-485 I/O Modules: ADAM-4000

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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