ADAM-4015
ADAM-4015T
ADAM-4016

6-ch RTD Module with Modbus

6-ch Thermistor Module with Modbus

1-ch Analog Input/Output Module

ADAM-4015

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, or 4-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% or better
- **CMR @ 50/60 Hz** 120 dB
- **Span Drift** ± 25 ppm/° C
- **Zero Drift** ± 3 μV/° C

ADAM-4015T

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** Thermistor
- **Thermistor Types and Temperature Ranges**

Thermistor 3 k	0 ~ 100° C
Thermistor 10 k	0 ~ 100° C

- **Accuracy** ±0.1% or better
- **CMR @ 50/60 Hz** 120 dB
- **Span Drift** ± 25 ppm/° C
- **Zero Drift** ± 3 μV/° C

ADAM-4016

Specifications

General

- **Connectors** 2 x plug-in terminal blocks (#14 ~ 22 AWG)
- **Power Consumption** 2.2 W @ 24 V_{DC}
- **Watchdog Timer** System (1.6 s)
- **Supported Protocols** ASCII command

Analog Input

- **Channels** 1 differential
- **Input Impedance** Voltage: 2 MΩ
  Current: 125 Ω
  (Added by users)
- **Input Type** mV and mA
- **Input Range** ±15 mV, ±50 mV, ±100 mV, ±500 mV, ±20 mA
- **Accuracy** Voltage mode: ±0.1% or better
  Current mode: ±0.2% or better
- **CMR @ 50/60 Hz** 150 dB
- **Span Drift** ±25 ppm/° C
- **Zero Drift** ±6 μV/° C

Analog Output

- **Channels** 1
- **Accuracy** 0.05% of FSR
- **Output Type** V
- **Output Range** 0 ~ 10 V
- **Drift** ±50 ppm/° C
- **Drive Current** 30 mA
- **Isolation Voltage** 3,000 V_{DC}

Digital Output

- **Channels** 4, open collector to 30 V, 30 mA max. load
- **Power Dissipation** 300 mW

Common Specifications

General

- **Power Input** Unregulated 10 ~ 30 V_{DC}

Analog Input

- **Resolution** 16 bits
- **NMR @ 50/60 Hz** 100 dB
- **Sampling Rate** 10 sample/second (total)
- **Isolation Voltage** 3,000 V_{DC}

Environment

- **Humidity** 5 ~ 95% RH
- **Operating Temperature** - 10 ~ 70° C (14 ~ 158° F)
- **Storage Temperature** - 25 ~ 85°C (-13 ~ 185° F)

Ordering Information

- **ADAM-4015** 6-ch RTD Input Module with Modbus
- **ADAM-4015T** 6-ch Thermistor Input Module with Modbus
- **ADAM-4016** 1-ch Analog Input/ Output Module