

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



ADAM-4015T



ADAM-4016



Specifications

General

- **Connectors** 2 x Plug-in terminal block (#14 ~ 28 AWG)
- **Power Consumption** 1.2 W @ 24 V_{DC}
- **Watchdog Timer** System (1.6 second) & Communication
- **Supported Protocols** ASCII command and Modbus/RTU
- **Wire Burnout Detector** 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

Specifications

General

- **Connectors** 2 x Plug-in terminal block (#14 ~ 28 AWG)
- **Power Consumption** 1.2 W @ 24 V_{DC}
- **Watchdog Timer** System (1.6 second) & Communication
- **Supported Protocols** ASCII command and Modbus/RTU
- **Wire Burnout Detector** 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

Specifications

General

- **Connectors** 2 x Plug-in terminal block (#14 ~ 22 AWG)
- **Power Consumption** 2.2 W @ 24 V_{DC}
- **Watchdog Timer** System (1.6 second)
- **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
Voltage mode: ±0.1% or better
Current mode: ±0.2% or better
- **Accuracy**
- **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** 3000 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** 3000 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