

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 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% 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 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 (NTC)
- 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 blocks (#14 ~ 28 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