

# 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<sub>DC</sub>
- Watchdog Timer System (1.6 s) & 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 M $\Omega$
- Input Type Pt, Balco and Ni RTD
- RTD Types and Temperature Ranges
  - Pt 100 RTD:
    - Pt -50 $^{\circ}$  C to 150 $^{\circ}$  C
    - Pt 0 $^{\circ}$  C to 100 $^{\circ}$  C
    - Pt 0 $^{\circ}$  C to 200 $^{\circ}$  C
    - Pt 0 $^{\circ}$  C to 400 $^{\circ}$  C
    - Pt -200 $^{\circ}$  C to 200 $^{\circ}$  C
  - IEC RTD 100 ohms (a = 0.00385)
  - JIS RTD 100 ohms (a = 0.00392)
  - Pt 1000 RTD
    - Pt -40 $^{\circ}$  C to 160 $^{\circ}$  C
  - Balco 500 RTD
    - 30 $^{\circ}$  C to 120 $^{\circ}$  C
  - Ni 50 RTD
    - Ni -80 $^{\circ}$  C to 100 $^{\circ}$  C
  - Ni 508 RTD
    - Ni 0 $^{\circ}$  C to 100 $^{\circ}$  C
  - BA1
    - 200 $^{\circ}$  C to 600 $^{\circ}$  C
- Accuracy  $\pm 0.1\%$  or better
- CMR @ 50/60 Hz 120 dB
- Span Drift  $\pm 25$  ppm/ $^{\circ}$  C
- Zero Drift  $\pm 3$   $\mu$ V/ $^{\circ}$  C

## Specifications

### General

- Connectors 2 x plug-in terminal blocks (#14 ~ 28 AWG)
- Power Consumption 1.2 W @ 24 V<sub>DC</sub>
- Watchdog Timer System (1.6 s) & 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 M $\Omega$
- Input Type Thermistor
- Thermistor Types and Temperature Ranges
  - Thermistor 3 k 0 ~ 100 $^{\circ}$  C
  - Thermistor 10 k 0 ~ 100 $^{\circ}$  C
- Accuracy  $\pm 0.1\%$  or better
- CMR @ 50/60 Hz 120 dB
- Span Drift  $\pm 25$  ppm/ $^{\circ}$  C
- Zero Drift  $\pm 3$   $\mu$ V/ $^{\circ}$  C

## Specifications

### General

- Connectors 2 x plug-in terminal blocks (#14 ~ 22 AWG)
- Power Consumption 2.2 W @ 24 V<sub>DC</sub>
- Watchdog Timer System (1.6 s)
- Supported Protocols ASCII command

### Analog Input

- Channels 1 differential
- Input Impedance Voltage: 2 M $\Omega$   
Current: 125  $\Omega$   
(Added by users)
- Input Type mV and mA
- Input Range  $\pm 15$  mV,  $\pm 50$  mV,  $\pm 100$  mV,  $\pm 500$  mV,  $\pm 20$  mA
- Accuracy Voltage mode:  $\pm 0.1\%$  or better  
Current mode:  $\pm 0.2\%$  or better
- CMR @ 50/60 Hz 150 dB
- Span Drift  $\pm 25$  ppm/ $^{\circ}$  C
- Zero Drift  $\pm 6$   $\mu$ V/ $^{\circ}$  C

### Analog Output

- Channels 1
- Accuracy 0.05% of FSR
- Output Type V
- Output Range 0 ~ 10 V
- Drift  $\pm 50$  ppm/ $^{\circ}$  C
- Drive Current 30 mA
- Isolation Voltage 3,000 V<sub>DC</sub>

### 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<sub>DC</sub>

### Analog Input

- Resolution 16 bits
- NMR @ 50/60 Hz 100 dB
- Sampling Rate 10 sample/second (total)
- Isolation Voltage 3,000 V<sub>DC</sub>

### Environment

- Humidity 5 ~ 95% RH
- Operating Temperature -10 ~ 70 $^{\circ}$  C (14 ~ 158 $^{\circ}$  F)
- Storage Temperature -25 ~ 85 $^{\circ}$  C (-13 ~ 185 $^{\circ}$  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