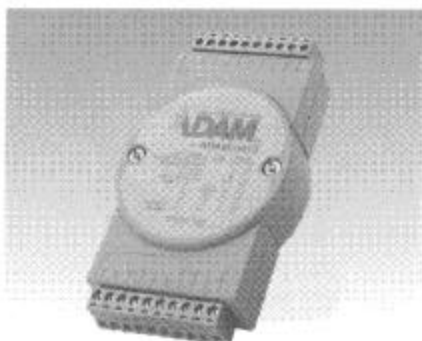


# ADAM-4015 ADAM-4015T ADAM-4016

6-channel RTD Module with Modbus

6-channel Thermistor Module with Modbus

Analog Input/Output Module



ADAM-4015



## Specifications

### Analog Input

- **Effective Resolution** 16-bit
- **Channels** 6 differential
- **Input Type** Pt, Balco and Ni RTD
- **RTD Types and Temperature Ranges**
  - Pt100 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 ( $\alpha = 0.00385$ )
    - JIS RTD 100 ohms ( $\alpha = 0.00392$ )
  - 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
- **Isolation Voltage** 3000 V<sub>DC</sub>
- **Sampling Rate** 10 samples / sec.
- **Input Impedance** 10 M $\Omega$
- **Bandwidth** 2.62 Hz
- **Input Connections** 2 or 3 wire
- **Accuracy**  $\pm 0.05\%$  or better
- **Zero Drift**  $\pm 3 \mu V/^{\circ}C$
- **Span Drift**  $\pm 25 \text{ ppm}/^{\circ}C$
- **CMR @ 50/60 Hz** 150 dB
- **NMR @ 50/60 Hz** 100 dB

### Built-in Watchdog Timer and Individual wire burned-out detection

#### Power

- **Power Requirements** Unregulated +10 - +30 V<sub>DC</sub>
- **Power Consumption** 1.2 W @ 24 V<sub>DC</sub>

## Ordering Information

- **ADAM-4015** 6-channel RTD Input Module w/Modbus



ADAM-4015T



## Specifications

### Analog Input

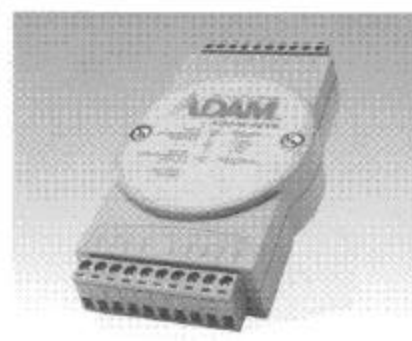
- **Effective Resolution** 16-bit
- **Channels** 6 differential
- **Input Type** Thermistor
- **Thermistor Types and Temperature Ranges**
  - Thermistor 3K 0 - 100° C
  - Thermistor 10K 0 - 100° C
- **Isolation Voltage** 3000 V<sub>DC</sub>
- **Sampling Rate** 10 samples / sec.
- **Input Impedance** 10 M $\Omega$
- **Bandwidth** 2.62 Hz
- **Input Connections** 2 or 3 wires
- **Accuracy**  $\pm 0.05\%$  or better
- **Zero Drift**  $\pm 3 \mu V/^{\circ}C$
- **Span Drift**  $\pm 25 \text{ ppm}/^{\circ}C$
- **CMR @ 50/60 Hz** 150 dB
- **NMR @ 50/60 Hz** 100 dB
- **Built-in Watchdog Timer**
- **Individual Wire Burned-out Detection**

#### Power

- **Power Requirement** Unregulated 10-30 V<sub>DC</sub>
- **Power Consumption** 1.2 W @ 24 V<sub>DC</sub>

## Ordering Information

- **ADAM-4015T** 6-channel Thermistor Input Module w/Modbus



ADAM-4016



## Specifications

### Analog Input

- **Effective Resolution** 16-bit
- **Channels** 1 differential
- **Input Type** mV and mA
- **Input Range**  $\pm 15 \text{ mV}$ ,  $\pm 50 \text{ mV}$ ,  $\pm 100 \text{ mV}$ ,  $\pm 500 \text{ mV}$ ,  $\pm 20 \text{ mA}$
- **Isolation Voltage** 3000 V<sub>DC</sub>
- **Sampling Rate** 10 samples/sec.
- **Input Impedance** 2 M $\Omega$
- **Bandwidth** 2.62 Hz
- **Accuracy**  $\pm 0.05\%$  or better
- **Zero Drift**  $\pm 6 \text{ mV}/^{\circ}C$
- **Span Drift**  $\pm 25 \text{ ppm}/^{\circ}C$
- **CMR @ 50/60 Hz** 150 dB
- **NMR @ 50/60 Hz** 100 dB

### Analog Output

- **Channel** 1
- **Output Type** V
- **Output Range** 0 - 10 V
- **Drive Current** 30 mA
- **Isolation Voltage** 3000 V<sub>DC</sub>
- **Accuracy** 0.05% of FSR
- **Drift**  $\pm 50 \text{ ppm}/^{\circ}C$

### Digital Output

- **Channels** 2, open collector to 30 V, 30 mA max. load
- **Built-in Watchdog Timer**
- **Built-in TVS/ESD Protection**

#### Power

- **Power Requirements** Unregulated +10 - +30 V<sub>DC</sub>
- **Power Consumption** 2.2 W @ 24 V<sub>DC</sub>

## Ordering Information

- **ADAM-4016-A2** Analog Input/Output Module