

ADAM-4015

ADAM-4015T

ADAM-4016

6-channel RTD Module with Modbus®

6-channel Thermistor Module with Modbus®

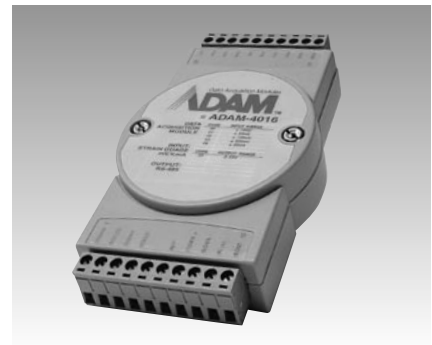
Analog Input/Output Module



ADAM-4015



ADAM-4015T



ADAM-4016



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 (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
- **Isolation Voltage** 3000 V_{DC}
- **Sampling Rate** 10 samples / sec.
- **Input Impedance** 10 MΩ
- **Bandwidth** 2.62 Hz
- **Input Connections** 2 or 3 wire
- **Accuracy** ± 0.05 % or better
- **Zero Drift** ± 3 μV/° C
- **Span Drift** ± 25 ppm/° 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_{DC}
- **Power Consumption** 1.2 W @ 24 V_{DC}

Ordering Information

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

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_{DC}
- **Sampling Rate** 10 samples / sec.
- **Input Impedance** 10 MΩ
- **Bandwidth** 2.62 Hz
- **Input Connections** 2 or 3 wires
- **Accuracy** ± 0.05% or better
- **Zero Drift** ± 3 μV/° C
- **Span Drift** ± 25 ppm/° 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_{DC}
- **Power Consumption** 1.2 W @ 24 V_{DC}

Ordering Information

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

Specifications

Analog Input

- **Effective Resolution** 16-bit
- **Channels** 1 differential
- **Input Type** mV and mA
- **Input Range** ±15 mV, ±50 mV, ±100 mV, ±500 mV, ±20 mA
- **Isolation Voltage** 3000 V_{DC}
- **Sampling Rate** 10 samples/sec.
- **Input Impedance** 2 MΩ
- **Bandwidth** 2.62 Hz
- **Accuracy** ±0.05% or better
- **Zero Drift** ±6 μV/° C
- **Span Drift** ±25 ppm/° 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_{DC}
- **Accuracy** 0.05% of FSR
- **Drift** ±50 ppm/° 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_{DC}
- **Power Consumption** 2.2 W @ 24 V_{DC}

Ordering Information

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