

ADAM-4012
ADAM-4013
ADAM-4015

Analog Input Module
RTD Input Module
6-channel RTD Module with Modbus



NEW

ADAM-4012
Analog Input Module

Analog Input

- **Effective Resolution:** 16-bit
- **Input Type:** mV, V or mA
- **Input Range:** ± 150 mV, ± 500 mV, ± 1 V, ± 5 V, ± 10 V and ± 20 mA
- **Isolation Voltage:** 3000 V_{DC}
- **Sampling Rate:** 10 samples/sec.
- **Input Impedance:** 2 M Ω
- **Bandwidth:** 2.62 Hz
- **Accuracy:** $\pm 0.05\%$ or better
- **Zero Drift:** ± 6 mV/ $^{\circ}$ C
- **Span Drift:** ± 25 ppm/ $^{\circ}$ C
- **CMR @ 50/60 Hz:** 150 dB
- **NMR @ 50/60 Hz:** 100 dB

Digital Input

- **Channels:** 1
logic level 0: +1 V max.
logic level 1: +3.5 V ~ +30 V
pull up current: 0.5 mA,
10 k Ω resistor to +5 V
- **Event Counter:**
Max. input frequency: 50 Hz
Min. input pulse width: 1 msec.

Digital Output

- **Channels:** 2
open collector to 30 V,
30 mA max. load
power dissipation: 300 mW

Built-in Watchdog Timer

Power

- **Power Requirements:**
unregulated +10 ~ +30 V_{DC}
- **Power Consumption:** 1.2 W

ADAM-4013
RTD Input Module

Analog Input

- **Effective Resolution:** 16-bit
- **Input Type:** Pt or Ni RTD
- **RTD Types and Temperature Ranges:**
IEC RTD 100 ohms
Pt -100 $^{\circ}$ C to +100 $^{\circ}$ C a = 0.00385
Pt 0 $^{\circ}$ C to +100 $^{\circ}$ C a = 0.00385
Pt 0 $^{\circ}$ C to +200 $^{\circ}$ C a = 0.00385
Pt 0 $^{\circ}$ C to +600 $^{\circ}$ C a = 0.00385
JIS RTD 100 ohms
Pt -100 $^{\circ}$ C to +100 $^{\circ}$ C a = 0.003916
Pt 0 $^{\circ}$ C to +100 $^{\circ}$ C a = 0.003916
Pt 0 $^{\circ}$ C to +200 $^{\circ}$ C a = 0.003916
Pt 0 $^{\circ}$ C to +600 $^{\circ}$ C a = 0.003916
Ni RTD
Ni -80 $^{\circ}$ C to +100 $^{\circ}$ C
Ni 0 $^{\circ}$ C to +100 $^{\circ}$ C

- **Isolation Voltage:** 3000 V_{DC}
- **Sampling Rate:** 10 samples/sec.
- **Input Impedance:** 2 M Ω
- **Bandwidth:** 2.62 Hz
- **Input Connections:** 2, 3 or 4 wire
- **Accuracy:** $\pm 0.05\%$ or better
- **Zero Drift:** ± 3 mV/ $^{\circ}$ C
- **Span Drift:** ± 25 ppm/ $^{\circ}$ C
- **CMR @ 50/60 Hz:** 150 dB
- **NMR @ 50/60 Hz:** 100 dB

Built-in Watchdog Timer

Power

- **Power Requirements:**
unregulated +10 ~ +30 V_{DC}
- **Power Consumption:** 0.7 W

ADAM-4015
6-channel RTD Module with Modbus

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 $^{\circ}$ 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
- **Isolation Voltage:** 3000 V_{DC}
- **Sampling Rate:** 12 samples / sec.
- **Input Impedance:** 10 M Ω
- **Bandwidth:** 2.62 Hz
- **Input Connections:** 2 or 3 wire
- **Accuracy:** $\pm 0.05\%$ or better
- **Zero Drift:** ± 3 μ V/ $^{\circ}$ C
- **Span Drift:** ± 25 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 Requirements:**
unregulated +10 ~ +30 V_{DC}
- **Power Consumption:** 1.2 W

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