

ADAM-5018

ADAM-5018P

ADAM-5024

7-channel Thermocouple Input Module

7-channel Thermocouple Input Module with Independent Input Range

4-channel Analog Output Module



ADAM-5018



Specifications

General

- **Certifications** CE, FM
- **Connectors** 1 x Plug-in screw terminal (# 14-22 AWG)
- **Power Consumption** 0.5 W (typical)
0.63 W (max.)

Thermocouple Input

- **Accuracy** $\pm 0.1\%$ or better
- **Bandwidth** 13.1 Hz @ 50 Hz
15.72 Hz @ 60 Hz
- **Channels** 7 differential
- **CMR @ 50/60 Hz** 92 dB min
- **Input Impedance** 2 M Ω
- **Input Range** ± 15 mV, ± 50 mV, ± 100 mV, ± 500 mV,
 ± 1 V, ± 2.5 V, ± 20 mA
mV, V, mA, thermocouple
- **Input Type**
- **Resolution** 16-bit
- **Sampling Rate** 10 samples/sec. (total)
- **Span Drift** ± 25 PPM/ $^{\circ}$ C
- **T/C Type and Temperature Range**

J	0 $^{\circ}$	~	760 $^{\circ}$ C
K	0 $^{\circ}$	~	1370 $^{\circ}$ C
T	-100 $^{\circ}$	~	400 $^{\circ}$ C
E	0 $^{\circ}$	~	1000 $^{\circ}$ C
R	500 $^{\circ}$	~	1750 $^{\circ}$ C
S	500 $^{\circ}$	~	1750 $^{\circ}$ C
B	500 $^{\circ}$	~	1800 $^{\circ}$ C
- **Zero Drift** ± 0.3 μ V/ $^{\circ}$ C

Protection

- **Fault and Overvoltage Protection** Withstands overvoltage
Up to ± 35 V
- **Isolation Voltage** 3,000 V_{DC}

Ordering Information

- **ADAM-5018** 7-channel Thermocouple Input Module



ADAM-5018P



Specifications

General

- **Certifications** CE
- **Connectors** 1 x Plug-in screw terminal (# 14-22 AWG)
- **Power Consumption** 0.5 W (typical)
0.63 W (max.)

Thermocouple Input

- **Accuracy Bandwidth** $\pm 0.1\%$ or better
13.1 Hz @ 50 Hz
15.72 Hz @ 60 Hz
- **Channels** 7 differential with Independent Input Range
- **CMR @ 50/60 Hz** 92 dB min
- **Input Impedance** 2 M Ω
- **Input Range and Types**

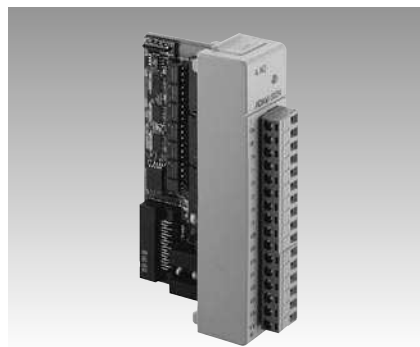
Thermocouple			
J	0	~	760 $^{\circ}$ C
K	0	~	1370 $^{\circ}$ C
T	-100	~	400 $^{\circ}$ C
E	0	~	1000 $^{\circ}$ C
R	500	~	1750 $^{\circ}$ C
S	500	~	1750 $^{\circ}$ C
B	500	~	1800 $^{\circ}$ C
- **Current mode** ± 20 mA, 4-20 mA
- **Voltage** ± 15 mV, ± 50 mV,
 ± 100 mV, ± 500 mV
 ± 1 V, ± 2.5 V
- **Resolution** 16-bit
- **Sampling Rate** 10 samples/sec. (total)
- **Span Drift** ± 25 PPM/ $^{\circ}$ C
- **Zero Drift** ± 0.3 μ V/ $^{\circ}$ C

Protection

- **Fault and Overvoltage Protection** Withstands over voltage
Up to ± 35 V
- **Isolation Voltage** 3,000 V_{DC}
- **Filter function** Yes
- **Built-in Dual Watchdog Timer**
- **Built-in TVS/ESD Protection**

Ordering Information

- **ADAM-5018P** 7-channel Thermocouple Input Module with Independent Input Range



ADAM-5024



Specifications

General

- **Certifications** CE, FM
- **Connectors** 1 x Plug-in screw terminal (# 14-22 AWG)
- **Power Consumption** 1.4 W (typical)
2.9 W (max.)

Analog Output

- **Accuracy** $\pm 0.1\%$ of FSR for current output
 $\pm 0.2\%$ of FSR for voltage output
- **Channels** 4
- **Current Load Resistor** 0 ~ 500 Ω (source)
- **Output Type** mA, V
- **Output Range** 0 ~ 20 mA, 4 ~ 20 mA,
0 ~ 10 V
- **Programmable Output Slope** 0.125 ~ 128.0 mA/sec.
- **Resolution** 12-bit
- **Resolution** $\pm 0.015\%$ of FSR
- **Span Temperature Coefficient** ± 25 PPM/ $^{\circ}$ C
- **Zero Drift** Voltage: ± 30 μ V/ $^{\circ}$ C
Current: ± 0.2 μ V/ $^{\circ}$ C

Protection

- **Isolation Voltage** 3,000 V_{DC}

Ordering Information

- **ADAM-5024** 4-channel Analog Output Module