

ADAM-5017UH

ADAM-5018

ADAM-5018P

8-ch Ultra High Speed Analog Input Module

7-ch Thermocouple Input Module
7-ch Thermocouple Input Module with Independent Input Range



ADAM-5017UH



ADAM-5018



ADAM-5018P



Specifications

General

- Certification** CE
- Connectors** 1 x Plug-in screw terminal (# 14 ~ 22 AWG)
- Enclosure** ABS+PC
- Power Consumption** 2.2 W (max.)

Analog Input

- Accuracy** $\pm 0.1\%$ or better
- Bandwidth** 200 kHz
- Channels** 8 differential
- Differential Non-linear** ± 1 LSB
- Input Impedance** Voltage: 2 M Ω
Current: 120 Ω (Build-in)
- Integral Non-linear** ± 1 LSB
- Input Range** ± 10 V, $+0 \sim 10$ V,
 $0 \sim 20$ mA, $+4 \sim 20$ mA
- Low pass filter** Configured by User
- Resolution** 12-bit
- Sampling Rate** Depends on base unit
ADAM-5000/485 & 5000E:
100 Samples/sec max (Total): one ADAM-5017UH installed
ADAM-5000/TCP & 5000L/TCP:
100 Samples/sec max (Total): one ADAM-5017UH installed
ADAM-5510:
200K Samples/sec max (Single Channel): one ADAM-5017UH installed
ADAM-5550 & ADAM-5560:
1K Samples/sec max (single channel): one ADAM-5017UH installed
*Depending on the performance of client server or controller
- Signal Input Bandwidth** 200 kHz for both voltage and current inputs

Protection

- Isolation Voltage** 3,000 V_{DC}
- Note:**
- The voltage difference between any two pins must not exceed 15 V
 - Distinct range settings allowed on each channel
- Note: Not support ADAM-5510KW series

Ordering Information

- ADAM-5017UH** 8-ch Ultra High Speed Analog Input Module

Specifications

General

- Certification** CE, FM
- Connectors** 1 x Plug-in screw terminal (# 14 ~ 22 AWG)
- Enclosure** ABS+PC
- Power Consumption** 0.63 W (max.)

Thermocouple Input

- Accuracy** Voltage mode: $\pm 0.1\%$ or better
Current mode: $\pm 0.2\%$ or better
 - Bandwidth** 13.1 Hz @ 50 Hz
15.72 Hz @ 60 Hz
7 differential
 - Channels** 92 dB min
 - CMR @ 50/60 Hz** 2 M Ω
 - Input Impedance** ± 15 mV, ± 50 mV, ± 100 mV, ± 500 mV,
 ± 1 V, ± 2.5 V, ± 20 mA
mV, V, mA, thermocouple
 - Input Range** 16-bit
 - Input Type** 10 samples/sec. (total)
 - Resolution** ± 25 PPM/ $^{\circ}$ C
 - Span Drift** ± 6 μ V/ $^{\circ}$ C
 - Zero Drift** T/C Type and Temperature Range
- | T/C Type | Temperature Range | Resolution |
|----------|-------------------------------------|------------|
| J | 0 $^{\circ}$ ~ 760 $^{\circ}$ C | 16-bit |
| K | 0 $^{\circ}$ ~ 1,370 $^{\circ}$ C | 16-bit |
| T | -100 $^{\circ}$ ~ 400 $^{\circ}$ C | 16-bit |
| E | 0 $^{\circ}$ ~ 1,000 $^{\circ}$ C | 16-bit |
| R | 500 $^{\circ}$ ~ 1,750 $^{\circ}$ C | 16-bit |
| S | 500 $^{\circ}$ ~ 1,750 $^{\circ}$ C | 16-bit |
| B | 500 $^{\circ}$ ~ 1,800 $^{\circ}$ C | 16-bit |

Protection

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

Ordering Information

- ADAM-5018** 7-ch Thermocouple Input Module
- ADAM-5018SK** ADAM-5018 with CJC kit/ external

Specifications

General

- Certification** CE, FCC class A
- Connectors** 1 x Plug-in screw terminal (# 14 ~ 22 AWG)
- Enclosure** ABS+PC
- Power Consumption** 0.63 W (max.)

Thermocouple Input

- Accuracy** Voltage mode: $\pm 0.1\%$ or better
Current mode: $\pm 0.2\%$ or better
 - Bandwidth** 13.1 Hz @ 50 Hz
15.72 Hz @ 60 Hz
 - Channels** 7 (differential, each channel can be configured with different range)
 - CMR @ 50/60 Hz** 92 dB min
 - Input Impedance** 20 M Ω . (Build-in 120 Ω . Register for Current Input)
 - Input Range and Types**
- | Thermocouple | Input Range | Resolution |
|--------------|--------------------------|------------|
| J | 0 ~ 760 $^{\circ}$ C | 16-bit |
| K | 0 ~ 1,370 $^{\circ}$ C | 16-bit |
| T | -100 ~ 400 $^{\circ}$ C | 16-bit |
| E | 0 ~ 1,000 $^{\circ}$ C | 16-bit |
| R | 500 ~ 1,750 $^{\circ}$ C | 16-bit |
| S | 500 ~ 1,750 $^{\circ}$ C | 16-bit |
| B | 500 ~ 1,800 $^{\circ}$ C | 16-bit |
- Resolution** ± 20 mA, 4 ~ 20 mA
 - Sampling Rate** ± 15 mV (0.2%), ± 50 mV, ± 100 mV, ± 500 mV, ± 1 V, ± 2.5 V
 - Span Drift** 16-bit
 - Zero Drift** 10 samples/sec. (total)
 - High Common Mode** ± 25 PPM/ $^{\circ}$ C
 ± 6 μ V/ $^{\circ}$ C
200 V_{DC}

Protection

- Fault and Overvoltage Protection** Withstands overvoltage up to ± 35 V
- Isolation Voltage** 3,000 V_{DC}
- Filter function** Yes
- Built-in TVS/ESD Protection**

Note: Not support ADAM-5510KW series

Ordering Information

- ADAM-5018P** 7-ch Thermo. Input Module w/ Ind. Input Range

Mouser Electronics

Authorized Distributor

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