

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

- **Certifications** 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 12 Ω . register for Current Input)
- **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:
100 Samples/sec max (Total) :one ADAM-5017UH installed
ADAM-5510 :
200K Samples/sec max (Single Channel): one ADAM-5017UH installed
ADAM-5550 :
1K Samples/sec per 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:**
1) The voltage difference between any two pins must not exceed 15 V
2) 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

- **Certifications** CE, FM
- **Connectors** 1 x Plug-in screw terminal (# 14 ~ 22 AWG)
- **Enclosure** ABS+PC
- **Power Consumption** 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
- **Input Type** mV, V, mA, thermocouple
- **Resolution** 16-bit
- **Sampling Rate** 10 samples/sec. (total)
- **Span Drift** ± 25 PPM/ $^{\circ}$ C
- **Zero Drift** ± 6 μ V/ $^{\circ}$ C
- **T/C Type and Temperature Range**

J	0 $^{\circ}$	~	760 $^{\circ}$ C
K	0 $^{\circ}$	~	1,370 $^{\circ}$ C
T	-100 $^{\circ}$	~	400 $^{\circ}$ C
E	0 $^{\circ}$	~	1,000 $^{\circ}$ C
R	500 $^{\circ}$	~	1,750 $^{\circ}$ C
S	500 $^{\circ}$	~	1,750 $^{\circ}$ C
B	500 $^{\circ}$	~	1,800 $^{\circ}$ C

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** C/JC Kit for ADAM-5018

Specifications

General

- **Certifications** 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			
J	0	~	760 $^{\circ}$ C
K	0	~	1,370 $^{\circ}$ C
T	-100	~	400 $^{\circ}$ C
E	0	~	1,000 $^{\circ}$ C
R	500	~	1,750 $^{\circ}$ C
S	500	~	1,750 $^{\circ}$ C
B	500	~	1,800 $^{\circ}$ C
Current			
Voltage		± 20 mA, 4 ~ 20 mA	
		± 15 mV (0.2%), ± 50 mV, ± 100 mV, ± 500 mV	
		± 1 V, ± 2.5 V	
		16-bit	
Resolution		10 samples/sec. (total)	
Sampling Rate		± 25 PPM/ $^{\circ}$ C	
Span Drift		± 6 μ V/ $^{\circ}$ C	
Zero Drift		200 V _{DC}	
High Common Mode			
- **Resolution** 16-bit
- **Sampling Rate** 10 samples/sec. (total)
- **Span Drift** ± 25 PPM/ $^{\circ}$ C
- **Zero Drift** ± 6 μ V/ $^{\circ}$ C
- **High Common Mode** 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

19	Embedded Controllers
20	PC-based Controllers
21	PAC
22	Motion Control
23	RS-485 I/O
24	Ethernet I/O
25	Building Automation
26	Self-service Terminals
27	eHome Platforms