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Find the *Advantech ADAM 5018* at our website: *Click HERE*

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** ±0.1% or better
- **Bandwidth** 200 kHz
- **Channels** 8 differential
- **Differential Non-linear** ±1 LSB
- **Input Impedance** Voltage: 2 MΩ
  Current: 120 Ω (Build-in)
- **Integral Non-linear** ±1 LSB
- **Input Range** ±10 V, +0 ~ 10 V,
  0 ~ 20 mA, +4 ~ 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:

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

- **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** ±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 MΩ
- **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/ °C
- **Zero Drift** ±6 µV/ °C
- **T/C Type and Temperature Range**

J	0°	~	760°C
K	0°	~	1,370°C
T	-100°	~	400°C
E	0°	~	1,000°C
R	500°	~	1,750°C
S	500°	~	1,750°C
B	500°	~	1,800°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** 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: ±0.1% or better
  Current mode: ±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 MΩ. (Build-in 120 Ω Register for Current Input)
- **Input Range and Types**

Thermocouple			
J	0	~	760°C
K	0	~	1,370°C
T	-100	~	400°C
E	0	~	1,000°C
R	500	~	1,750°C
S	500	~	1,750°C
B	500	~	1,800°C
Current			±20 mA, 4 ~ 20 mA
Voltage			±15 mV (0.2%), ±50 mV, ±100 mV, ±500 mV ±1 V, ±2.5 V

- **Resolution** 16-bit
- **Sampling Rate** 10 samples/sec. (total)
- **Span Drift** ±25 PPM/°C
- **Zero Drift** ±6 µV/°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

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