

# ADAM-4017+ ADAM-4018+ ADAM-4019+

8-ch Analog Input Module with Modbus  
8-ch Thermocouple Input Module with Modbus  
8-ch Universal Analog Input Module with Modbus



ADAM-4017+ FCC CE RoHS LISTED E19381 ETC.



ADAM-4018+ FCC CE RoHS LISTED E19381 ETC.



ADAM-4019+ FCC CE RoHS LISTED E19381 ETC.

## Specifications

### General

- Power Consumption 1.2 W @ 24 V<sub>DC</sub>
- Watchdog Timer System (1.6 second) & Communication
- Supported Protocols ASCII command and Modbus/RTU

### Analog Input

- Channels 8 differential
- Channel Independent Configuration Yes
- Input Impedance Voltage: 20 MΩ  
Current: 120 Ω
- Input Type mV, V, mA
- Input Range ±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V, ±20 mA, 4 ~ 20 mA

## Specifications

### General

- Power Consumption 0.8 W @ 24 V<sub>DC</sub>
- Watchdog Timer System (1.6 second) & Communication
- Supported Protocols ASCII command and Modbus/RTU

### Analog Input

- Channels 8 differential
- Channel Independent Configuration Yes
- Input Impedance Voltage: 20 MΩ  
Current: 120 Ω
- Input Type Thermocouple, mA
- Input Range 0 ~ 20 mA, 4 ~ 20 mA
- T/C Types and Temperature Ranges

J	0 ~ 760°C	R	500 ~ 1,750°C
K	0 ~ 1,370°C	S	500 ~ 1,750°C
T	-100 ~ 400°C	B	500 ~ 1,800°C
E	0 ~ 1,000°C		

- Burn-out Detection All T/C

## Specifications

### General

- Power Consumption 1.0 W @ 24 V<sub>DC</sub>
- Watchdog Timer System (1.6 second) & Communication
- Supported Protocols ASCII command and Modbus/RTU

### Analog Input

- Channels 8 differential channels for individual input type
- Channel Independent Configuration Yes
- Input Impedance Voltage: 20 MΩ  
Current: 120 Ω
- Input Type T/C, mV, V, mA
- Input Range ±1 V, ±2.5 V, ±5 V, ±10 V, ±100 mV, ±500 mV, ±20 mA, 4 ~ 20 mA

### T/C Types and Temperature Ranges

J	0 ~ 760°C	R	500 ~ 1,750°C
K	0 ~ 1,370°C	S	500 ~ 1,750°C
T	-100 ~ 400°C	B	500 ~ 1,800°C
E	0 ~ 1,000°C		

- Burn-out Detection 4 ~ 20 mA & all T/C

## Common Specifications

### General

- Power Input Unregulated 10 ~ 30 V<sub>DC</sub>
- Connectors 2 x plug-in terminal block (#14 ~ 22 AWG)

### Analog Input

- Accuracy Voltage mode: ±0.1% or better  
Current mode: ±0.2% or better
- Resolution 16-bit
- Sampling Rate 10 sample/second (total)
- Isolation Voltage 3,000 V<sub>DC</sub>

- Overvoltage Protection ±35 V<sub>DC</sub>
- CMR @ 50/60 Hz 120 dB
- NMR @ 50/60 Hz 100 dB
- Span Drift ±25 ppm/°C
- Zero Drift ±6 μV/°C
- Built-in TVS/ESD Protection

### Environment

- Operating Humidity 5 ~ 95% RH
- Operating Temperature -10 ~ 70°C (14 ~ 158°F)
- Storage Temperature -25 ~ 85°C (-13 ~ 185°F)

## Ordering Information

- ADAM-4017+ 8-ch Analog Input Module with Modbus
- ADAM-4018+ 8-ch Thermocouple Input Module w/Modbus
- ADAM-4019+ 8-ch Universal Analog Input Module w/Modbus