

# 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+



ADAM-4018+



ADAM-4019+



## 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 Yes
- Configuration Configuration
- Input Impedance Voltage: 20 M $\Omega$   
Current: 120  $\Omega$
- Input Type mV, V, mA
- Input Range  $\pm 150$  mV,  $\pm 500$  mV,  $\pm 1$  V,  
 $\pm 5$  V,  $\pm 10$  V,  $\pm 20$  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 Yes
- Configuration Configuration
- Input Impedance Voltage: 20 M $\Omega$   
Current: 120  $\Omega$
- 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 Yes
- Configuration Configuration
- Input Impedance Voltage: 20 M $\Omega$   
Current: 120  $\Omega$
- Input Type T/C, mV, V, mA
- Input Range  $\pm 1$  V,  $\pm 2.5$  V,  $\pm 5$  V,  
 $\pm 10$  V,  $\pm 100$  mV,  
 $\pm 500$  mV,  $\pm 20$  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:  $\pm 0.1\%$  or better  
Current mode:  $\pm 0.2\%$  or better
- Resolution 16-bit
- Sampling Rate 10 sample/second (total)
- Isolation Voltage 3,000 V<sub>DC</sub>

- Overvoltage Protection  $\pm 35$  V<sub>DC</sub>
- CMR @ 50/60 Hz 120 dB
- NMR @ 50/60 Hz 100 dB
- Span Drift  $\pm 25$  ppm/ $^{\circ}$ C
- Zero Drift  $\pm 6$   $\mu$ V/ $^{\circ}$ C
- Built-in TVS/ESD Protection

### Environment

- Operating Humidity 5 ~ 95% RH
- Operating Temperature -10 ~ 70 $^{\circ}$ C  
(14 ~ 158 $^{\circ}$ F)
- Storage Temperature -25 ~ 85 $^{\circ}$ C  
(-13 ~ 185 $^{\circ}$ 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



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