

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

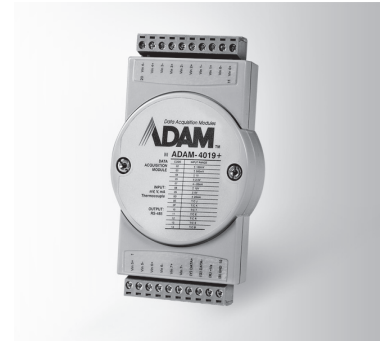
**8-ch Analog Input Module with Modbus**  
**8-ch Thermocouple Input Module with Modbus**  
**8-ch Universal Analog Input Module with Modbus**



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 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** ±20 mA, 4 ~ 20 mA
- **T/C Types and Temperature Ranges**

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

<b>J</b>	0 ~ 760°C	<b>R</b>	500 ~ 1,750°C
<b>K</b>	0 ~ 1,370°C	<b>S</b>	500 ~ 1,750°C
<b>T</b>	-100 ~ 400°C	<b>B</b>	500 ~ 1,800°C
<b>E</b>	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 (Typical)
- **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

## Assured Systems

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### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660