

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_{DC}
- **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** ADAM-4017+ ±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V, ±20 mA, 4 ~ 20 mA

Specifications

General

- **Power Consumption** 0.8 W @ 24 V_{DC}
- **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
- **Voltage/Current Input Range** ADAM-4018+ 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_{DC}
- **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
- **Voltage/Current 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 ~ 1370° 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_{DC}
- **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_{DC}

- **Overvoltage Protection** ±35 V_{DC}
- **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

- **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