

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+ RoHS COMPLIANT 2002/95/EC CE FCC E180881 LITE

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 M Ω
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



ADAM-4018+ RoHS COMPLIANT 2002/95/EC CE FCC E180881 LITE

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 M Ω
Current: 120 Ω
- Input Type Thermocouple, mA
- Voltage/Current ADAM-4018+
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



ADAM-4019+ RoHS COMPLIANT 2002/95/EC CE FCC E180881 LITE

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 M Ω
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: $\pm 0.1\%$ or better
Current mode: $\pm 0.2\%$ or better
- Resolution 16-bit
- Sampling Rate 10 sample/second (total)
- Isolation Voltage 3,000 V_{DC}

- Overvoltage Protection ± 35 V_{DC}
- CMR @ 50/60 Hz 120 dB
- NMR @ 50/60 Hz 100 dB
- Span Drift ± 25 ppm/ $^{\circ}$ C
- Zero Drift ± 6 μ V/ $^{\circ}$ 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