

ADAM-4017/4017+ ADAM-4018/4018+ ADAM-4019+

8-channel Analog Input Modules
with Modbus®

8-channel Thermocouple Input
Module with Modbus®

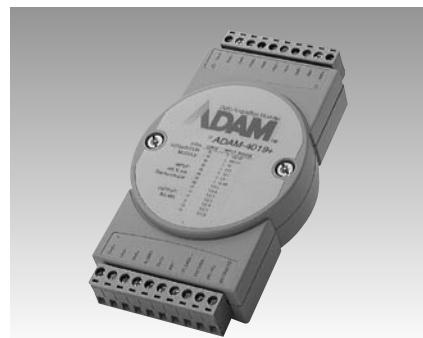
8-channel Universal Analog
Input Module with Modbus®



ADAM-4017/4017+



ADAM-4018/4018+



ADAM-4019+



Specifications

General

- Power Consumption 1.2 W @ 24 V_{DC}
- Analog Input**
- Channels Six differential, two single-ended (4017) eight differential (4017+)
- Ch. Independent Conf. ADAM-4017+ only
- 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, 4-20mA (4017+ only)
- Modbus® ADAM-4017+ only
- Overvoltage Protection ±35 V
- Sampling Rate 10 samples/sec. (total)
- Span Drift ±25 ppm/[°]C
- TVS/ESD Protection Built-in
- Zero Drift ±6 µV/[°]C

Specifications

General

- Power Consumption 0.8 W @ 24 V_{DC}
- T/C-Burnout Detector Yes (4018+ only)

Analog Input

- Channels Six differential, two single-ended (4018) eight differential (4018+)
- Ch. Independent Conf. ADAM-4018+ only
- Input Impedance Voltage: 20 MΩ Current: 120 Ω
- Input Range ±15 mV, ±50 mV, ±100 mV, ±500 mV, ±1 V, ±2.5 V, ±20 mA (4018); 4-20 mA (4018+)
- Input Types Thermocouple, mV, V, mA (4018) (4018+ Supports T/C & 4-20 mA only)
- Modbus® ADAM-4018+ only
- Overvoltage Protection ±35 V
- Sampling Rate 10 samples/sec. (total)
- Span Drift ±25 ppm/[°]C
- T/C Type and Temperature Ranges

J	0 ~ 760 °C	R	500 ~ 1750 °C
K	0 ~ 1370 °C	S	500 ~ 1750 °C
T	-100 ~ 400 °C	B	500 ~ 1800 °C
E	0 ~ 1000 °C		
- TVS/ESD Protection Built-in
- Zero Drift ±6 µV/[°]C

Specifications

General

- Power Consumption 1.0 W @ 24 V_{DC}

Analog Input

- Accuracy ±0.1% of voltage input
- Bandwidth 13.1 Hz @ 50 Hz, 15.72 Hz @ 60 Hz
- Burn-out Detection +4~20mA & all T/C
- Channels 8 differential channels for individual input type
- CMR @ 50/60 Hz 92 dB min.
- Resolution 16 bits
- Input Range +/-1V, +/-2.5V, +/-5V, +/-10V, +/-100mV, +/-500mV, +/-20mA, +/-4~20mA
- Input Impedance Voltage: 20 MΩ Current: 120 Ω
- Input Type T/C, mV, V, mA
- Isolation Protection 3000 V_{DC}
- Overvoltage Protection ±35 V
- T/C Type and Temperature Range

J	0 ~ 760 °C
K	0 ~ 1370 °C
T	-100 ~ 400 °C
E	0 ~ 1000 °C
R	500 ~ 1750 °C
S	500 ~ 1750 °C
B	500 ~ 1800 °C
- Span Drift ±25 ppm/[°]C
- Zero Drift ±6 µV/[°]C

Common Specification

General

- Dimensions 70 x 122 x 30 mm
- Connectors 2 x Plug-in terminal block (#14~22 AWG)
- Enclosure ABS+PC
- Mounting DIN 35 rail, stack, wall
- Power Input Unregulated 10-30 V_{DC}
- Watchdog Timer 1.6 sec. (system)

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-channel Analog Input Module
- **ADAM-4017+** 8-channel Differential Analog Input Module w/Modbus®
- **ADAM-4018** 8-channel Thermocouple, mV, V, mA Input Module
- **ADAM-4018+** 8-channel Differential, mA and Thermocouple Input Module w/Modbus®
- **ADAM-4019+** 8-channel Universal Analog Input Module w/Modbus®