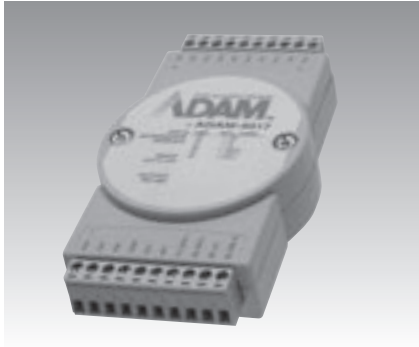


ADAM-4017/4017+ ADAM-4018/4018+ ADAM-4019+

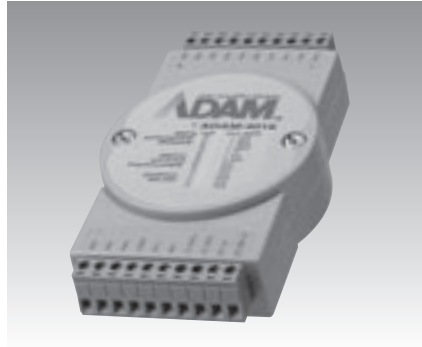
8-ch Analog Input Modules with
Modbus®

8-ch Thermocouple Input Modules
with Modbus

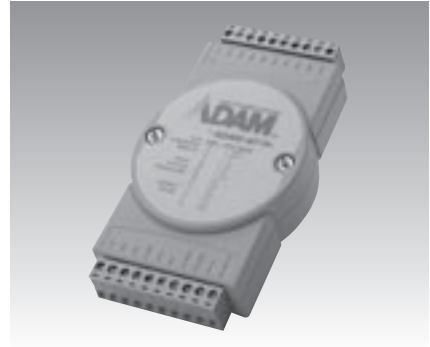
8-ch Universal Analog Input Module
with Modbus



ADAM-4017/4017+ 



ADAM-4018/4018+ 



ADAM-4019+ 

Specifications

General

- Power Consumption 1.2 W @ 24 V_{DC}
- Watchdog Timer ADAM-4017:
System (1.6 second)
ADAM-4017+:
System (1.6 second) &
Communication
- Support Protocol ASCII command
(ADAM-4017)
ASCII command and
Modbus/RTU
(ADAM-4017+)

Analog Input

- Channels ADAM-4017:
6 differential, and 2
single-ended
ADAM-4017+:
8 differential
- Channel Independent
Configuration ADAM-4017+ only
- Input Impedance Voltage: 20 M Ω
Current: 120 Ω
(4017+ only)
- Input Type mV, V, mA
- Input Range ADAM-4017
 ± 150 mV, ± 500 mV, ± 1 V,
 ± 5 V, ± 10 V, ± 20 mA
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 ADAM-4018:
System (1.6 second)
ADAM-4018+:
System (1.6 second) &
Communication
- Support Protocol ASCII command
(ADAM-4018)
ASCII command and
Modbus/RTU
(ADAM-4018+)

Analog Input

- Channels ADAM-4018: 6 differential,
and 2 single-ended
ADAM-4018+: 8 differential
ADAM-4018+ only
- Channel Independent
Configuration
- Input Impedance Voltage: 20 M Ω
Current: 120 Ω
(4018+ only)
- Input Type ADAM-4018
Thermocouple, mV, V, mA
ADAM-4018+
Thermocouple, mA
ADAM-4018 ± 15 mV,
 ± 50 mV, ± 100 mV, ± 500 mV,
 ± 1 V, ± 2.5 V, ± 20 mA
ADAM-4018+
 ± 20 mA, 4 ~ 20 mA
- Voltage/Current
Input Range
- T/C Types 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		
- Burn-out Detection All T/C (ADAM-4018+ only)

Specifications

General

- Power Consumption 1.0 W @ 24 V_{DC}
- Watchdog Timer System (1.6 second) &
Communication
- Support Protocol ASCII command and
Modbus/RTU

Analog Input

- Channels 8 differential channels
for individual input type
Yes
- Channel Independent
Configuration
- 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 ~ 1750° C
K <th>0 ~ 1370° C</th> <th>S</th> <th>500 ~ 1750° C</th>	0 ~ 1370° C	S	500 ~ 1750° C
T <th>-100 ~ 400° C</th> <th>B</th> <th>500 ~ 1800° C</th>	-100 ~ 400° C	B	500 ~ 1800° C
E <th>0 ~ 1000° C</th> <td></td> <td></td>	0 ~ 1000° 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 3000 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 μ V/° 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
- ADAM-4017+ 8-ch Analog Input Module
with Modbus
- ADAM-4018 8-ch Thermocouple Input
Module
- ADAM-4018+ 8-ch Thermocouple Input
Module with Modbus
- ADAM-4019+ 8-ch Universal Analog
Input Module with Modbus