ADAM-4118 ADAM-4150 ADAM-4168

Robust 8-ch Thermocouple Input Module with Modbus

Robust 15-ch Digital I/O Module with Modbus

Robust 8-ch Relay Output Module with Modbus







Specifications

General

 Certification Power Consumption 0.5W @ 24 Vpc

Analog Input Channels 8 differential and

channels Input Impedance $20~\mathrm{M}\Omega$ Input Type T/C, mV, V, mA

Input Range Thermocouple

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J	0 ~ 760°C	R	500 ~ 1,750°C
K	0 ~ 1,370°C	S	500 ~ 1,750°C
T	-100 ~ 400°C	В	500 ~ 1,800°C
Ε	0 ~ 1,000°C	N	-200 ~ 1300°C

0~15 mV. 0~50 mV. Voltage mode 0~100 mV, 0~500 mV,

 $0~1~V, 0~2.5~V, \pm 15~mV,$ ±50 mV, ±100 mV, ± 500 mV, ± 1 V, ± 2.5 V

independent configuration

Current mode 0~20mA, ±20 mA, 4~20 mA

Accuracy Voltage mode: ±0.1% or

better

Current mode: ±0.2% or

better Resolution 16-bit

Sampling Rate 10/100 samples/sec (selected by Utility)

 CMR @ 50/60 Hz 92 dB

Overvoltage Protection ±60 V_{DC}

High Common Mode 200 V_{DC}

Span Drift ±25 ppm/°C (Typical)

Zero Drift

Built-in TVS/ESD Protection

Burnout Detection

Specifications

General

 Certification Power Consumption 1.6 W @ 24 V_{DC}

Digital Input

Channels

Input Level

Dry contact: Logic level 0: Close to GND

Logic level 1: Open Logic level 0: 3 V max

Logic level 1: 10 ~ 30 V (Note: The Digital Input Level 0 and 1 status can be

Wet contact:

Supports 3 kHz Counter Input (32-bit + 1-bit

Supports 3 kHz Frequency Input

Supports Invert DI Status

• Over Voltage Protection 40 V_{DC}

Digital Output

Channels 8, open collector to 40 V (0.1A max. per channel)

 Power Dissipation 1W load max

 RON Maximum $150~\text{m}\Omega$ Supports 1 kHz Pulse Output

Supports High-to-Low Delay Output

Supports Low-to-High Delay Output

Specifications

General

 Certification Power Consumption 2.3 W @ 24 Vpc

Relay Output

 Output Channels 8 Form A Contact Rating 0.5 A @ 120 V_{AC} 0.25 A @ 240 V_{AC} (Resistive) 1 A @ 30 V_{DC}

0.3 A @ 110 V_{DC} Breakdown Voltage 750 Vac (50/60 Hz) 1 G Ω min. @ 500 V_{nc}

 Initial Insulation Resistance

 Relay Response On:4ms Off:4ms Time (Typical)

Total Switching Time 10 ms (Typical)

Supports 100 Hz pulse output

Maximum Operating 50 operations/min Speed (at related load)

Common Specifications

General

Power Input Unregulated 10 ~ 48 V_{DC} **Watchdog Timer** System (1.6 second) & Communication

Connector 2 x plug-in terminal

All product specifications are subject to change without notice.

Isolation Voltage Interface (B version)

blocks (#14 ~ 22 AWG) 3,000 V_{DC} RS-485, micro USB

Supported Protocols

ASCII Command and Modbus/RTU

Environment

Operating Humidity 5 ~ 95% RH **Operating Temperature** -40 ~ 85°C (-40 ~ 185°F)

 Storage Temperature -40 ~ 85°C (-40 ~ 185°F)

Ordering Information

ADAM-4118-C

Robust 8-ch Thermocouple Input

ADAM-4150-C

Module w/ Modbus Robust 15-ch Digital I/O Module with Modbus Robust 8-ch Relay

ADAM-4168-C

Output Module with Modbus