

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

Power Consumption 0.5W @ 24 V_{DC}

Analog Input

Channels

8 differential and independent configuration

channels

Input Impedance

Voltage: 20 M Ω Current: 120 Ω T/C, mV, V, mA

 Input Type **Input Range**

Theimocoupie			
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		

Voltage mode ±15 mV, ±50 mV, ±100 mV, ±500 mV,

±1 V, ±2.5 V ±20 mA, 4 ~ 20 mA

Current mode Accuracy Voltage mode: ±0.1% or

> Current mode: ±0.2% or better

Resolution 16-bit

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

CMR @ 50/60 Hz 92 dB NMR @ 50/60 Hz 60 dB

Overvoltage Protection ±60 V_{DC} High Common Mode 200 V_{DC}

Span Drift ±25 ppm/°C (Typical) Zero Drift +611V/°C

Built-in TVS/ESD Protection **Burn-out Detection**

Specifications

General

Power Consumption 0.7 W @ 24 V_{DC}

Digital Input

Channels

Input Level

Logic level 0: Close to GND Dry contact: Logic level 1: Open Wet contact: Logic level 0: 3 V max

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

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

Supports 3 kHz Frequency Input

Supports Invert DI Status

 Over Voltage Protection $40 V_{DC}$

Digital Output

Channels 8, open collector to 40 V (0.8A max. load)

 Power Dissipation 1W load max RON Maximum 150 mO Supports 1 kHz Pulse Output

Supports High-to-Low Delay Output

Supports Low-to-High Delay Output

Specifications

General

Power Consumption 1.8 W @ 24 V_{DC}

Relay Output

 Output Channels 8 Form A Contact Rating 0.5 A @ 120 VAC (Resistive) 0.25 A @ 240 VAC 1 A @ 30 V_{DC} 0.3 A @ 110 Vnc

 Breakdown Voltage 750 V_{AC} (50/60 Hz) Initial Insulation 1 G Ω min. @ 500 V_{DC} Resistance

Relay Response On: 3ms Off: 1ms Time (Typical)

• Total Switching Time 10 ms

Supports 100 Hz pulse output

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

Common Specifications

General

Connector

Isolation Voltage

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

Communication 2 x plug-in terminal blocks (#14 ~ 22 AWG) 3,000 V_{DC}

 Supported Protocols ASCII Command and Modbus/RTU

Environment

· Operating Humidity Operating Temperature

5~95% RH -40 ~ 85°C (-40 ~ 185°F)

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

Ordering Information

ADAM-4118

Robust 8-ch Thermocouple Input Module w/ Modbus Robust 15-ch Digital I/O

ADAM-4150 ADAM-4168

Module with Modbus Robust 8-ch Relay Output Module with Modbus

Online Download www.advantech.com/products

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