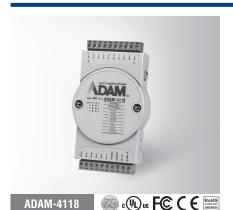
ADAM-4118 ADAM-4150 ADAM-4168

Robust 8-ch Thermocouple Input Module with Modbus

Robust 15-ch Digital I/O Module with

Robust 8-ch Relay Output Module with Modbus







Specifications

General

 Certification FCC, CE, UL, UL Class I Division 2

■ 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 Thermocouple

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		

±15 mV, ±50 mV, Voltage mode

> ±100 mV, ±500 mV, ±1 V, ±2.5 V

Current mode ±20 mA, 4 ~ 20 mA Voltage mode: ±0.1% or Accuracy

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 NMR @ 50/60 Hz 60 dB

±60 Vnc

Overvoltage Protection

High Common Mode 200 V_{DC}

±25 ppm/°C (Typical) Span Drift

Zero Drift

Built-in TVS/ESD Protection

Burnout Detection

Specifications

General

 Certification FCC, CE, UL, UL Class I Division 2

■ Power Consumption 0.7 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 Wet contact:

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

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 $150~\text{m}\Omega$

Supports 1 kHz Pulse Output

Supports High-to-Low Delay Output Supports Low-to-High Delay Output

Specifications

General

 Certification FCC. CE. UL Power Consumption 1.8 W @ 24 V_{DC}

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 V_{AC} (50/60 Hz) $1 \text{ G} \Omega \text{ min.} @ 500 \text{ V}_{DC}$

Initial Insulation Resistance

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

Total Switching Time 10 ms

Supports 100 Hz pulse output

Maximum Operating 50 operations/min Sneed (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) RS-485, micro USB

blocks (#14 ~ 22 AWG) $3,000 \, V_{DC}$

Supported Protocols

ASCII Command and Modbus/RTU

Environment

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

Ordering Information

ADAM-4118

ADAM-4150

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

ADAM-4168

Output Module with Modbus