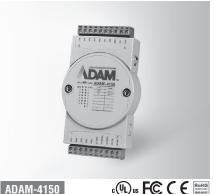
# ADAM-4118 ADAM-4150 ADAM-4168

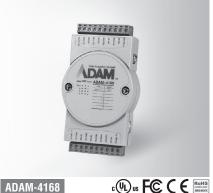
**Robust 8-ch Thermocouple Input Module** with Modbus

**Robust 15-ch Digital I/O Module with** 

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







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### **Specifications**

#### General

 Certification FCC, CE, UL ■ Power Consumption 0.5W @ 24 V<sub>DC</sub>

**Analog Input** Channels 8 differential and

> independent configuration channels

T/C, mV, V, mA

 Input Impedance Voltage:  $20 \, \text{M}\Omega$ Current: 120  $\Omega$ 

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	N	-270 ~ 1300°C

Voltage mode ±15 mV, ±50 mV, ±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

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

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

**Overvoltage Protection**  $\pm 60~V_{DC}$ 

High Common Mode 200 Vnc

±25 ppm/°C (Typical) Span Drift Zero Drift ±6µV/°C

**Built-in TVS/ESD Protection** 

**Burnout Detection** 

### **Specifications**

#### General

 Certification FCC. CE. UL Power Consumption 0.7 W @ 24 V<sub>DC</sub>

#### **Digital Input**

Wet contact:

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

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<sub>DC</sub>

#### **Relay Output**

 Output Channels 8 Form A Contact Rating 0.5 A @ 120 V<sub>AC</sub> 0.25 A @ 240 V<sub>AC</sub> (Resistive) 1 A @ 30 V<sub>DC</sub> 0.3 A @ 110 V<sub>DC</sub>

 Breakdown Voltage 750 V<sub>AC</sub> (50/60 Hz)  $1 \text{ G }\Omega$  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<sub>DC</sub> **Watchdog Timer** System (1.6 second) & Communication

Connector 2 x plug-in terminal blocks (#14 ~ 22 AWG)

All product specifications are subject to change without notice.

**Isolation Voltage**  $3,000 V_{DC}$ RS-485, micro USB Interface (B version)

Supported Protocols

**ASCII Command and** Modbus/RTU

#### **Environment**

**Operating Humidity** 5 ~ 95% RH **Operating Temperature** -40 ~ 85°C  $(-40 \sim 185^{\circ}F)$  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 Module with Modbus

**ADAM-4168** 

**ADAM-4150** 

Robust 8-ch Relay Output Module with Modbus

AD\ANTECH

RS-485 I/O Modules: ADAM-4000

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