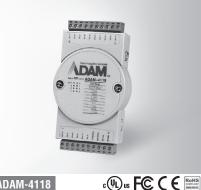
# ADAM-4118 ADAM-4150 ADAM-4168

**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



ADAM-4118

### **Specifications**

#### General

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

#### **Analog Input**

- Channels
- Input Impedance
- Input Type
- Input Range Thermocouple

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0~760°C 500~1,750°C R 0~1,370°C S 500~1,750°C 500 ~ 1,800°C -100 ~ 400°C В **E** 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 16-bit Sampling Rate 10/100 samples/sec (selected by Utility) CMR @ 50/60 Hz 92 dB NMR @ 50/60 Hz 60 dB

8 differential and

Voltage: 20 MΩ

Current: 120  $\Omega$ 

T/C, mV, V, mA

channels

independent configuration

- **Overvoltage Protection**  $\pm 60 V_{DC}$ .
- High Common Mode 200 Vpc
- ±25 ppm/°C (Typical) Span Drift ±6µV/°C
- Zero Drift .
- **Built-in TVS/ESD Protection**
- **Burnout Detection** .

## DAM 00000000000 ADAM-4150

### **Specifications**

#### General

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

### **Digital Input**

 Channels 7 Input Level

Dry contact: Logic level 0: Close to GND 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  $40 V_{\text{DC}}$

### **Digital Output**

- Channels
- (0.8A max. load)
- Power Dissipation
- RON Maximum .
- Supports 1 kHz Pulse Output
- Supports High-to-Low Delay Output
- Supports Low-to-High Delay Output



### **Specifications**

### General

CE,	UL
	CE,

Power Consumption 1.8 W @ 24 Vpc

#### **Relay Output**

Output Channels	8 Form A
Contact Rating	0.5 A @ 120 V <sub>AC</sub>
(Resistive)	0.25 A @ 240 V <sub>AC</sub>
	1 A @ 30 Vdc
	0.3 A @ 110 V <sub>DC</sub>
Breakdown Voltage	750 V <sub>AC</sub> (50/60 Hz)
Initial Insulation	1 G $\Omega$ min. @ 500 V <sub>DC</sub>
Resistance	
Deles Deserves	0 0

- 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 Watchdog Timer . Connector

**Isolation Voltage** 

Interface (B version)

- Unregulated 10 ~ 48 V<sub>DC</sub> System (1.6 second) & Communication 2 x plug-in terminal blocks (#14 ~ 22 AWG) 3,000 V<sub>DC</sub> RS-485, micro USB
  - - Storage Temperature

### **Ordering Information**

ADAM-4118 Robust 8-ch Thermocouple Input Module w/ Modbus Robust 15-ch Digital I/O ADAM-4150 Module with Modbus ADAM-4168 Robust 8-ch Relay Output Module with Modbus

AD\ANTECH RS-485 I/O Modules: ADAM-4000

Supported Protocols ASCII Command and Modbus/RTU

5~95% RH

-40~85°C

-40 ~ 85°C

(-40 ~ 185°F)

(-40 ~ 185°F)

### Environment

- **Operating Humidity**
- **Operating Temperature**

- 8, open collector to 40 V
- 1W load max  $150 \text{ m}\Omega$

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