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 FCC C E Rotts Constant

Specifications

General

Power Consumption 0.5W @ 24 Vpc

Analog Input

- Channels
- Input Impedance
- Input Type Input Range Thermocouple

monnoodapio					
J	0~760°C		R	500 ~ 1,750°C	
K	0~1,370°C		S	500 ~ 1,750°C	
Т	-100 ~ 400°C		В	500 ~ 1,800°C	
E	0~1,000°C				
Voltage mode Current mode Accuracy		±10 ±1 ±20 Vol bet Cu	±15 mV, ±50 mV, ±100 mV, ±500 mV, ±1 V, ±2.5 V ±20 mA, 4 ~ 20 mA Voltage mode: ±0.1% or better Current mode: ±0.2% or better		
Resolution Sampling Rate		16- 10/	16-bit 10/100 samples/sec (selected by Utility)		
CMR @ 50/60 Hz NMR @ 50/60 Hz		<u>9</u> 2	92 dB 60 dB		

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

Common Specifications

General

- **Power Input** Watchdog Timer
- Connector
- System (1.6 second) & Communication 2 x plug-in terminal blocks (#14 ~ 22 AWG) **Isolation Voltage** 3,000 VDC RS-485, micro USB

Unregulated 10 ~ 48 Vpc

Interface (B version)

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- Supported Protocols

Environment

- Operating Humidity
- (-40 ~ 185°F) -40 ~ 85°C
- 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





Specifications

General

Power Consumption 0.7 W @ 24 V_{DC}

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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

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
- Power Dissipation 1W load max
- **RON Maximum** .
- Supports 1 kHz Pulse Output
- Supports High-to-Low 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 V _{AC}
	(Resistive)	0.25 A @ 240 V _{AC}
		1 A @ 30 Vdc
		0.3 A @ 110 V _{DC}
	Breakdown Voltage	750 V _{AC} (50/60 Hz)
	Initial Insulation	1 G Ω min. @ 500 V_{DC}
	Resistance	
	Relay Response	On: 3ms
	Time (Typical)	Off: 1ms
	Total Switching Time	10 ms
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- Supports 100 Hz pulse output
- Maximum Operating 50 operations/min (at related load) Speed

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

All product specifications are subject to change without notice.

ASCII Command and Modbus/RTU

(-40~185°F)

- 5~95% RH **Operating Temperature** -40 ~ 85°C

- (0.8A max. load) $150 \text{ m}\Omega$
- 8, open collector to 40 V
- Supports Low-to-High Delay Output

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

8 differential and

independent configuration