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



FCC, CE, UL, UL Class I

independent configuration

8 differential and

Current: 120 Ω

T/C, mV, V, mA

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

Current mode: ±0.2% or

±60 Vpc

Specifications

General

- Certification
- Division 2 Power Consumption 0.5W @ 24 V_{DC}

Analog Input

- Channels
- channels Input Impedance Voltage: 20 MΩ
- Input Type
- Input Range

| Ine | rmoc | ouple |
|-------|------|-------|
| · · · | | 70000 |

| J | 0~760°C | | K | 500~1,750°C | | |
|--------------|--------------|-----|--|---------------|--|--|
| K | 0~1,370°C | | S | 500~1,750°C | | |
| Т | -100 ~ 400°C | | B | 500 ~ 1,800°C | | |
| Ε | 0~1,000°C | | | | | |
| Voltage mode | | ±10 | ±15 mV, ±50 mV, ±100 mV, ±500 mV, ±1 V, ±2.5 V | | | |

better

better

16-bit

- Current mode
- Accuracy
- Resolution
- Sampling Rate
 - 10/100 samples/sec (selected by Utility) 92 dB
- CMR @ 50/60 Hz . NMR @ 50/60 Hz
- 60 dB **Overvoltage Protection**
- High Common Mode 200 V_{DC}
 - ±25 ppm/°C (Typical) +6uV/°C
- Span Drift Zero Drift
- **Built-in TVS/ESD Protection**
- **Burnout Detection**

Common Specifications

General

- Power Input Unregulated 10 ~ 48 V_{DC} Watchdog Timer . Connector **Isolation Voltage**
- Interface (B version)
- System (1.6 second) & Communication 2 x plug-in terminal blocks (#14 ~ 22 AWG) 3,000 V_{DC} RS-485, micro USB
- Environment **Operating Humidity Operating Temperature**

Supported Protocols

- Storage Temperature

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Specifications

General

Certification

ADAM-4150

- Channels 7
- Input Level Dry contact:

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)

- **Over Voltage Protection** $40 V_{DC}$

Digital Output

- Channels
- (0.8A max. load)
- Power Dissipation 1W load max
 - $150 \text{ m}\Omega$
- .
- .

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Specifications

General

- Certification FCC. CE. UL
- Power Consumption 1.8 W @ 24 Vpc

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 Vpc Breakdown Voltage 750 V_{AC} (50/60 Hz) Initial Insulation $1 \operatorname{G} \Omega$ min. @ 500 V_{DC} Resistance On: 3ms
- Relay Response Off: 1ms Time (Typical)
- Total Switching Time 10 ms
- Supports 100 Hz pulse output
- Maximum Operating 50 operations/min Speed (at related load)

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

All product specifications are subject to change without notice.

- **RON Maximum** .
- Supports 1 kHz Pulse Output
- Supports High-to-Low Delay Output
- Supports Low-to-High Delay Output

8, open collector to 40 V

ASCII Command and

Modbus/RTU

5~95% RH

-40 ~ 85°C

-40 ~ 85°C

(-40 ~ 185°F)

(-40 ~ 185°F)

- Supports 3 kHz Frequency Input
- Supports Invert DI Status

- Power Consumption 0.7 W @ 24 V_{DC} **Digital Input**
- FCC, CE, UL, UL Class I Division 2

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

Mouser Electronics

Authorized Distributor

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Advantech: ADAM-4150-B