ADAM-4118 ADAM-4150 ADAM-4168

Robust 8-ch Thermocouple Input Module with Modbus®

Robust Digital I/O Module with Modbus

Robust Relay Output Module with Modbus







Specifications

General

 Power Consumption 0.5W @ 24 V_{DC}

Analog Input

Thermocouple

Voltage mode

ADAM-4150

ADAM-4168

8 differential Channels and independent configuration channels Voltage: 20 M Ω Input Impedance Current: 120 Ω T/C, mV, V, mA Input Type Input Range

0~760°C 0 ~ 1370 °C -100 ~ 400 °C 0 ~ 1000 °C 500 ~ 1750 °C 500 ~ 1750 °C 500 ~ 1800 °C ±15 mV, ±50 mV, ±100 mV, ±500 mV,

±1 V, ±2.5 V ±20 mA. 4 ~ 20 mA Current mode Voltage mode: ±0.1% or Accuracy

> Current mode: ±0.2% or hetter

 Resolution 16-bit

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

 CMR @ 50/60 Hz 92 dB NMR @ 50/60 Hz 60 dB Overvoltage Protection ±60 V_{DC} **High Common Mode** $200\;V_{\text{DC}}$ ±25 ppm/° C Span Drift Zero Drift ±6μV/° C **Built-in TVS/ESD Protection**

Specifications

General

 Power Consumption 0.7 W @ 24 Vnc

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 V to +30 V

(Note: The Digital Input Level 0 and 1 status can be inverted)

Support 3 kHz Counter Input (32-bit + 1-bit overflow)

Support 3 kHz Frequency Input

Support Invert DI Status

Digital Output

Channels 8, open collector to 40 V (1 A max. load)

 Power Dissipation 1W load max Ron Maximum 150 m Ω Support 1 kHz Pulse Output

Support High-to-Low Delay Output

Support Low-to-High Delay Output

Specifications

General

Power Consumption 1.8 W @ 24 Vnc

Relay Output

Resistance

- Output Channels 8 Form A

 Contact Rating 0.5 A @ 120 V (Resistive) 0.25 A @ 240 V 1 A @ 30 V

0.3 A @ 110 V Breakdown Voltage 750 V_{AC} (50/60 Hz) Initial Insulation 1 G Ω min. @ 500 V_{DC}

 Relay Response Time On: 3ms (Typical) Off: 1ms **Total Switching Time** 10 ms

Supports 100 Hz pulse output

Ordering Information

 ADAM-4118 Robust 8-ch Thermocouple Input Module with

Modbus® Robust Digital I/O Module with

Modbus Robust Relay

Output Module with Modbus

Common Specifications

Power Input Unregulated 10 ~ 48 V_{DC} **Watchdog Timer** System (1.6 second) & Communication

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

Isolation Voltage 3000 V_{DC} Support Protocol ASCII Command and Modbus/RTU

Environment

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

 Storage Temperature -40 ~ 85°C (-40 ~ 185° F)