ADAM-4118
ADAM-4150
ADAM-4168

Specifications

General
- Power Consumption: 0.5W @ 24 Vdc

Analog Input
- Channels: 8 differential and independent configuration channels
- Input Impedance
  - Voltage: 20 MΩ
  - Current: 120 Ω
- Input Type: T/C, mV, V, mA
- 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), B (500 ~ 1,800°C), E (0 ~ 1,000°C)
- Accuracy: Voltage mode: ±0.1% or better, Current mode: ±0.2%
- 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 Vdc
- CMR @ 50/60 Hz:
- High Common Mode: 200 Vdc
- Span Drift: ±25 ppm/°C (Typical)
- Zero Drift: ±6μV/°C
- Built-in TVS/ESD Protection
- Burnout Detection

Voltage mode: ±15 mV, ±50 mV, ±100 mV, ±500 mV, ±1 V, ±2.5 V
Current mode: ±20 mA, 4 ~ 20 mA

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 Vdc

Digital Output
- Channels: 8, open collector to 40 V
- Power Dissipation: 1W load max
- RON Maximum: 150 mΩ
- Supports 1 kHz Pulse Output
- Supports High-to-Low Delay Output
- Supports Low-to-High Delay Output

Supported Protocols: ASCII Command and Modbus/RTU

Environment
- Operating Humidity: 5 ~ 95% RH
- Operating Temperature: -40 ~ 85°C (-40 ~ 185°F)
- Storage Temperature: -40 ~ 85°C (-40 ~ 185°F)

Common Specifications

General
- Power Input: Unregulated 10 ~ 48 Vdc
- Watchdog Timer: System (1.6 second) & Communication
- Connector: 2 x plug-in terminal blocks (#14 ~ 22 AWG)
- Isolation Voltage: 3,000 Vdc
- Interface (B version): RS-485, micro USB
-Supported Protocols: ASCII Command and Modbus/RTU

Environment
- Operating Humidity: 5 ~ 95% RH
- Operating Temperature: -40 ~ 85°C (-40 ~ 185°F)
- Storage Temperature: -40 ~ 85°C (-40 ~ 185°F)

Ordering Information

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

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All product specifications are subject to change without notice.
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