



Bridging the Gap between Real World and Computer

JDAM-9018

8-channel Analog/ Thermocouple Input Module



Specifications

- ▶ Interface : RS-485, 2 wires
- ▶ Speed (bps) : 1200, 2400, 4800, 9600, 19.2K, 38.4K, 115.2K
- ▶ Analog Input : Differential input
- ▶ Analog Channels Numbers : 8
- ▶ Analog Resolution : 16-bit / 12-bit
- ▶ Unit Conversion : Thermocouple, mV, V or mA
- ▶ Thermocouple Type : J, K, T, E, R, S, B, N
- ▶ Sample Rate :
 - Normal Mode : 10 samples/sec (16-bit)
 - Fast Mode : 60 samples/sec (12-bit)
- ▶ Bandwidth : 15.7 Hz
- ▶ Accuracy : $\pm 0.1\%$
- ▶ Zero Drift : $0.5\mu\text{V}/^\circ\text{C}$
- ▶ Span Drift : $25\text{ ppm}/^\circ\text{C}$
- ▶ CMR@50/60Hz : 150dB
- ▶ NMR@50/60Hz : 100dB
- ▶ Input Impedance : 20M Ohms
- ▶ Voltage Range : $\pm 2.5\text{Vdc}$, $\pm 1\text{Vdc}$, $\pm 500\text{mVdc}$, $\pm 100\text{mVdc}$, $\pm 50\text{mVdc}$, $\pm 15\text{mVdc}$
- ▶ Current Measurement : $\pm 20\text{mA}$ (with external 125 ohms resistor)

Ordering Information

- ▶ JS51DAM9018 : 8-channel Analog Input Module

JDAM-9024

4 Analog Output Channel and 4 Digital Input Channel Module



Specifications

- ▶ Support Protocol : JDAM-ASCII(default) and MODBUS-RTU
- ▶ Interface : RS-485, 2 wires
- ▶ Speed (bps) : 1200, 2400, 4800, 9600, 19.2K, 38.4K, 115.2K
- ▶ Analog output
 - Output type : mA, V
 - Analog Channels Numbers : 4
 - Analog Resolution : 14-bit
 - Output Range : $0\sim 20\text{mA}$, $4\sim 20\text{mA}$, $0\sim \pm 5\text{Vdc}$, And $0\sim \pm 10\text{Vdc}$
 - Programmable Output Slope : $0.125 \sim 2048\text{ mA/Second}$
 $0.0625 \sim 1024\text{ V/Second}$
 - Max. Load Resistor @Current output mode : $1050\text{ ohm @}24\text{Vdc}$
 - Max. Current @Voltage Output mode : 5mA
 - Accuracy : $\pm 0.1\%$ of FSR for current output
 $\pm 0.2\%$ of FSR for voltage output
 - Zero Drift : Voltage output : $\pm 30\mu\text{V}/^\circ\text{C}$
Current output : $\pm 0.2\mu\text{A}/^\circ\text{C}$
 - Span Temperature Coefficient : $\pm 25\text{ ppm}/^\circ\text{C}$
 - Isolation voltage : 3000Vdc
- ▶ Isolated Digital Input
 - Channel : 4
 - Logical level 0 : $+1\text{Vdc (max.)}$
 - Logical level 1 : $+10\text{Vdc} \sim +30\text{Vdc}$
 - Isolation voltage : 3750Vrms
- ▶ Watchdog Function
 - Module internal watchdog timer : 200ms
 - Power failure threshold : 4.65Vdc
 - Safety value : 2 digital output channels
 - Host programmable watchdog : $100\text{ms} \sim 25.500\text{sec}$
- ▶ Over Voltage protection : $\pm 35\text{Vdc}$
- ▶ Power Consumption : 2.4W
- ▶ Power requirement : $10\text{Vdc} \sim 30\text{Vdc}$

Ordering Information

- ▶ JS51DAM9024 : Data Acquisition Modules