



Bridging the Gap between Real World and Computer

JDAM-9014/9014D Analog/Transmitter Input with LED Display



JDAM-9017F 8-Channel Isolated Analog Input Module



Specifications

- ▶ Interface : RS485, 2 wires
- ▶ Speed (bps) : 1200, 2400, 4800, 9600, 19.2K, 38.4K, 115.2K
- ▶ Analog Input
 - LED Indication : **LED 4 1/2 digit for displaying analog input voltage(JDAM-9014D)**
 - Input Channel : 1 single-ended channel
 - Isolation : photo-isolation 3,750Vrms
 - Resolution : 16-bit
 - Input Range : $\pm 150\text{mVdc}$, $\pm 500\text{mVdc}$, $\pm 1\text{Vdc}$, $\pm 5\text{Vdc}$, $\pm 10\text{Vdc}$ and $\pm 20\text{mA}$
 - Sample Rate : 10 samples/sec
 - Band Width : 4.0Hz
 - Zero Drift : $5\mu\text{V}/^\circ\text{C}$
 - Span Drift : $25\text{ppm}/^\circ\text{C}$
 - Accuracy : 0.05% or better
 - CMRR : 150 DB min. @50/60Hz
 - Over Voltage Protection : $\pm 10\text{Vdc}$
- ▶ Digital Input
 - Input Channel : 1
 - Logical Level 0 : $+1\text{Vdc}$ (max.)
 - Logical Level 1 : $+3.5\text{Vdc} \sim +30\text{Vdc}$
 - Band Width : 50Hz (max.)
 - Pulse Width : 0.5ms (min.)
- ▶ Digital Output
 - Output Channel : 2
 - Output Type : Open collector output
 - Max. Loading : 30mA @30Vdc load (max.)
- ▶ Power Consumption : **1.4W (max.) JDAM-9014**
2.0W (max.) JDAM-9014D
- ▶ Power requirement : 10Vdc ~ 30Vdc

Ordering Information

- ▶ **JS51DAM9014** : Analog/Transmitter input
- ▶ **JS51DAM9014D** : Analog/Transmitter input with LED display

Specifications

- ▶ Interface : RS485, 2 wires
- ▶ Speed (bps) : 1200, 2400, 4800, 9600, 19.2K, 38.4K, 115.2K
- ▶ LED Indication : LED for power and communication
- ▶ Input Channel : 6 differential + 2 single-ended or 8 differential
- ▶ Resolution : 16-bit / 12-bit
- ▶ Input Range : $\pm 150\text{mVdc}$, $\pm 500\text{mVdc}$, $\pm 1\text{Vdc}$, $\pm 5\text{Vdc}$, $\pm 10\text{Vdc}$ and $\pm 20\text{mA}$
- ▶ Isolation : Fully photo-isolation 3,750Vrms
- ▶ Sample Rate :
 - Normal Mode : 10 samples/sec (16-bit)
 - Fast Mode : 60 samples/sec (12-bit)
- ▶ Band Width : 15.72Hz (normal); 78.6Hz(fast)
- ▶ Zero Drift : $0.03\ \mu\text{V}/^\circ\text{C}$
- ▶ Span Drift : 25 ppm/ degree C Accuracy
 - Normal Mode : 0.1 or better
 - Fast Mode : 0.5 or better
- ▶ CMRR : 92 DB min. @50/60Hz
- ▶ Over Voltage Protection : $\pm 35\text{Vdc}$
- ▶ Power Consumption : 1.4W (max.)
- ▶ Power requirement : 10Vdc ~ 30Vdc

Ordering Information

- ▶ **JS51DAM9017F** : 8-channel isolated analog input Module



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 : $0.5\mu V/^{\circ}C$
- ▶ Span Drift : 25 ppm/ $^{\circ}C$
- ▶ CMR@50/60Hz : 150dB
- ▶ NMR@50/60Hz : 100dB
- ▶ Input Impedance : 20M Ohms
- ▶ Voltage Range : $\pm 2.5Vdc$, $\pm 1Vdc$, $\pm 500mVdc$, $\pm 100mVdc$, $\pm 50mVdc$, $\pm 15mVdc$
- ▶ Current Measurement : $\pm 20mA$ (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 : 0~20mA, 4~20mA, 0~ $\pm 5Vdc$, And 0~ $\pm 10Vdc$
 - Programmable Output Slope : 0.125 ~ 2048 mA/Second
0.0625 ~ 1024 V/Second
 - Max. Load Resistor @Current output mode : 1050 ohm @24Vdc
 - 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 : $\pm 30\mu V/^{\circ}C$
Current output : $\pm 0.2\mu A/^{\circ}C$
 - Span Temperature Coefficient : ± 25 ppm/ $^{\circ}C$
 - Isolation voltage : 3000Vdc
- ▶ Isolated Digital Input
 - Channel : 4
 - Logical level 0 : +1Vdc (max.)
 - Logical level 1 : +10Vdc ~ +30Vdc
 - Isolation voltage : 3750Vrms
- ▶ Watchdog Function
 - Module internal watchdog timer : 200ms
 - Power failure threshold : 4.65Vdc
 - Safety value : 2 digital output channels
 - Host programmable watchdog : 100ms ~ 25.500sec
- ▶ Over Voltage protection : $\pm 35Vdc$
- ▶ Power Consumption : 2.4W
- ▶ Power requirement : 10Vdc ~ 30Vdc

Ordering Information

- ▶ JS51DAM9024 : Data Acquisition Modules