

W-M2B101

2 Channels 4-in-1 Analog Input Module

(Voltage / Current / Thermocouple / RTD)



Main Features

- 2 Channels Analog Input Module
- 4-in-1 Analog Input Module (voltage / current / thermocouple / RTD)
- Channel Independent Configuration
- Communication Protocol: Modbus RTU



Introduction

W-M2B101, the Modbus RTU RS-485-based analog input voltage / current / thermocouple / RTD module, it has the dual watchdog securities ensured system uptime. The module inputs will automatically stay in safety values while the master PC fails to block any operating errors. This design increases effectively the reliability and stability of the system.

Specification

General

• Interface	RS-485	• Voltage Protection	±36V for Input Terminal: U+ ±12V for Input Terminal: M-, S-
• Protocol	Modbus RTU	• Current Protection	50 mA for Input Terminal: I+
• Input Range	10-36 VDC	• High Voltage	±5V, ±10V, 0-5V, 0-10V
• Power Consumption	1.2 W @ 24 VDC	• Low Voltage	±100mV, ±500mV, ±1V, ±0-100mV, 0-500mV, 0-1V
• Connector	Plug-in Terminal Block (#16~30 AWG)	• Current Input	±20mA, 4-20mA, 0-20mA
• Temperature	-25 to +70°C (Operating) -30 to +75°C (Storage)	• Sampling Rates	2 samples /second
• Humidity	Operating Relative Humidity: 10% to 90% (non-condensing)	• Accuracy	±0.1% FSR
• LED Indicators	PWR, Comm, Program, Status	• TC Sensor Input	J, K, T, E, R, S, B, N
• Communication Distance	1.2 km at 9.6 kbps	• RTD Sensor Types	Platinum 100 α= 0.00385 (IEC) :200-600°C 0.00392 (JIS) :200-600°C Platinum 1000 α= 0.00385 (IEC) :200-600°C
• Communication Speed	From 1200 to 115.2 kbps	• Disconnection Detection	4 ~ 20 mA, all T/C , all RTD
• Isolation	2500 Vrms	• Input Impedance	Voltage: 100 KΩ Current: 120 Ω
• Weight	65g (Average)	• Span Drift	±25 ppm/°C
• Dimension	20mm x 100mm x 95mm	• Zero Drift	±6 μV/°C
• Channel	2 Channels		
• Resolution	16 Bit		

Analog Input