

W-M1B103 / W-M1B104

3 in 1 Universal Analog Input Module

High Common Mode Voltage Protection



Main Features

- Communication Speed From 1200 to 115.2 kbps
- Direct Sensor Input J, K, T, E, R, S, B, N
- Input Impedance Voltage: 2 MΩ, Current: 120 Ω
- Communication Protocol: Modbus RTU



Introduction

W-M1B103 / W-M1B104, 8 and 16 channels voltage / current / thermocouple analog input module with high common mode voltage protection.

Specification

Model Name	W-M1B103 (8 Channels)	W-M1B104 (16 Channels)
<u>Analog Input</u>		
Voltage Range	±100mV, ±500mV, ±1V, ±5V, ±10V, 0-100mV, 0-500mV, 0-1V, 0-5V, 0-10V	
Current Range	± 20 mA, 4-20 mA, 0-20 mA (Slide Switch Select)	
Direct Sensor Input	J, K, T, E, R, S, B, N	
Burn-out Detection	Yes (all V, 4 ~ 20 mA & all T/C)	
Sampling Rates	12 Samples / Second (Total)	
Resolution	16-bit	
Accuracy	± 0.1% FSR	
Input Impedance	Voltage: 2MΩ, Current: 120 Ω	
Span Drift	± 25 ppm/°C	
Zero Drift	± 6 μV/°C	
Input Voltage Protection	± 240V for Voltage Mode (Exclude ± 100 mV, 0-100 mV)	
Common Mode Voltage	240 V	
Channel Independent Configuration	Yes	
<u>General</u>		
Interface	RS-485	
Power Consumption	1.6W @ 24 VDC	2.8W @ 24 VDC
Power Requirement	10 – 60 VDC	
Watchdog Timer	System (1.6 Second Fixed)	
Intra-Module Isolation, Field-to-Logic	2500 VDC	
<u>Communication</u>		
Protocol:	Modbus RTU	
Speed:	From 1200-115.2k bps	
Distance:	1.2 km at 9.6 kbps	
<u>Environmental</u>		
Temperature:	-25 to +70 °C (Operating) -30 to +75 °C (Storage)	
Humidity:	Operating Relative Humidity: 10% to 90% (non-condensing)	
<u>Dimension</u>		
LED Indicators:	PWR, Comm, Program , Status	
Weight:	65g (Average)	
Dimension:	472mm x 121mm x 120mm	
<u>Ordering Information</u>		
W-M1B103	8 universal analog inputs module (voltage / current / thermocouple)	
W-M1B104	16 universal analog inputs module (voltage / current / thermocouple)	