

# W-M1B107 / W-M1B108

## 8 / 16 Channels Thermocouple Input Module



### Main Features

- 16-bit Resolution
- Direct Sensor Input: J, K, T, E, R, S, B, N
- 3000 VDC Isolation
- Communication Protocol: Modbus RTU



### Introduction

W-M1B107 / W-M1B108, 8 and 16 channels thermocouple analog input modules which are the extremely cost-effective options to users, particularly for the industrial automation applications.

### Specification

Model Name	W-M1B107 (8 Channels)	W-M1B108 (16 Channels)
<b><u>Analog Input</u></b>		
Input Type	Thermocouple	
Direct Sensor Input	J, K, T, E, R, S, B, N	
Burn-out Detection	Yes	
Sampling Rates	2.5 Samples / Second per channel	
Resolution	16-bit	
Accuracy	± 0.1% FSR	
Input Impedance	Voltage: 2 MΩ	
Span Drift	± 25 ppm/°C	
Zero Drift	± 6 μV/°C	
Input Voltage Protection	± 36 V	
Channel Independent Configuration	Yes	
<b><u>General</u></b>		
Interface	RS-485	
Communication Protocol	Modbus RTU	
Communication Speed	From 1200-115.2k bps	
Communication Distance	1.2 km at 9.6 kbps	
Power Consumption	1.6W @ 24 VDC	2.8W @ 24 VDC
Power Requirement	10 – 60 VDC	
Watchdog Timer	System (1.6 Second Fixed)	
LED Indicators	PWR, Comm, Program, Status	
Intra-Module Isolation, Field-to-Logic	2500 VDC	
<b><u>Environmental</u></b>		
Temperature: -25 to +70 °C (Operating) -30 to +75 °C (Storage)		
Humidity: Operating Relative Humidity: 10% to 90% (non-condensing)		
<b><u>Dimension</u></b>		
Weight: 65g (Average)		
Dimension: 472mm x 121mm x 120mm		
<b><u>Ordering Information</u></b>		
W-M1B107 8 channels thermocouple input module		
W-M1B108 16 channels thermocouple input module		