



W-M1B107/108

8 / 16 Channels Thermocouple Input Module



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.

Analog Input

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: 2MΩ
Span Drift	± 25 ppm/°C
Zero Drift	± 6 μV/°C
Input Voltage Protection	± 36 V
Channel Independent Configuration	Yes

General

Interface	RS-485
Power Consumption	1.6W @ 24 VDC (W-M1B107) 2.8W @ 24 VDC (W-M1B108)
Power Requirement	10 ~ 60 VDC
Watchdog Timer	System (1.6 Second Fixed)
Intra-Module Isolation, Field-to-Logic	2500 VDC

Communication

Protocol:	Modbus RTU
Speed	From 1200-115.2k bps
Distance	1.2 km at 9.6 kbps

Environmental

Operating Temp.	-25 ~ 70 °C
Storage Temp.	-30 ~ 75 °C
Operating Relative Humidity	10% to 90% (non-condensing)

Dimension

LED Indicators	PWR, Comm, Program, Status
Weight	65g (Average)
Dimensions	472 x 121 x 120mm

Ordering Information

W-M1B107	8 channels thermocouple input module
W-M1B108	16 channels thermocouple input module

