

# W-M1B111 / W-M1B112

## 8 / 16 Channels Voltage Input Module



### Main Features

- Current Input  $\pm 20\text{mA}$ , 4~20mA, 0~20mA
- Input Impedance Current: 120  $\Omega$
- Sampling Rates 2.5 Samples / Second per Channel
- Communication Protocol: Modbus RTU



### Introduction

W-M1B111 / W-M1B112, 8 and 16 channels voltage analog input modules with the excellent performance benefits to industrial automation applications. Continuously the rugged features of Wolf I/O series, it's reliable enough to stand on site where the harsh environments.

### Specification

Model Name	W-M1B111 (8 Channels)	W-M1B112 (16 Channels)
<b>Analog Input</b>		
Input Type	Voltage	
Voltage Range	$\pm 1\text{ V}$ , $\pm 5\text{ V}$ , $\pm 10\text{ V}$ , 0-1 V, 0-5 V, 0-10	
Burn-out Detection	4-20 mA	
Sampling Rates	2.5 Samples / Second per channel	
Resolution	16-bit	
Accuracy	$\pm 0.1\%$ FSR	
Input Impedance	Voltage: 2 M $\Omega$	
Span Drift	$\pm 25\text{ ppm}/^\circ\text{C}$	
Zero Drift	$\pm 6\text{ }\mu\text{V}/^\circ\text{C}$	
Input Voltage Protection	$\pm 36\text{ V}$	
Channel Independent Configuration	Yes	
<b>General</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,	2500 VDC	
Field-to-Logic		
<b>Environmental</b>		
Temperature: -25 to +70 $^\circ\text{C}$ (Operating) -30 to +75 $^\circ\text{C}$ (Storage)		
Humidity: Operating Relative Humidity: 10% to 90% (non-condensing)		
<b>Dimension</b>		
Weight: 65g (Average) Dimension: 472mm x 121mm x 120mm		
<b>Ordering Information</b>		
W-M1B111	8 channels voltage input module	
W-M1B112	16 channels voltage input module	