

# W-M1B113

## 6 Channels RTD Input Module



### Main Features

- Channel Independent Configuration
- Over Voltage Protection  $\pm 55V$
- Sampling Rates 12 samples / second (Total)
- Communication Protocol: Modbus RTU



## Introduction

W-M1B113, 6 channels RTD input module that accepts a wide range of sensor types. Allowing to stand on site where the harsh environments due to the rugged features. It is made by fact that easy and friendly configuration is also a plus that brought users a benefit.

## Specification

Model Name		W-M1B113 ( 6 Channels )	
<b><u>Analog Input</u></b>		<b><u>General</u></b>	
Input Type	RTD	Protocol: Modbus RTU	
Sampling Rates	2.5 Samples / Second per channel	Power Consumption: 2.8W @ 24 VDC	
Resolution	16-bit	Power Requirement: 10 – 60 VDC	
Accuracy	$\pm 0.1\%$ FSR	Watchdog Timer: 1.6 Second Fixed	
Input Impedance	Voltage: 2 M $\Omega$		
Span Drift	$\pm 25$ ppm/ $^{\circ}C$	<b><u>Communication</u></b>	
Zero Drift	$\pm 6$ $\mu V/^{\circ}C$	Speed: From 1200-115.2 kbps	
Input Voltage Protection	$\pm 55V$	Distance: 1.2 km at 9.6 kbps	
Channel Independent Configuration	Yes	Intra-Module Isolation,	
Sensor Type	Platinum100 $\alpha=0.00385$ (IEC), -200~600 $^{\circ}C$ Platinum1000 $\alpha=0.00385$ (IEC), -200~600 $^{\circ}C$ Platinum100 $\alpha=0.00392$ (JIS), -200~600 $^{\circ}C$ Cu100 @0 $^{\circ}C$ , $\alpha= 0.00421$ , -20~150 $^{\circ}C$ Cu1000 @0 $^{\circ}C$ , $\alpha=0.00421$ , -20~150 $^{\circ}C$ Cu1000 @0 $^{\circ}C$ , $\alpha=0.00421$ , -20~150 $^{\circ}C$ Cu100 @25 $^{\circ}C$ , $\alpha=0.00427$ , 0~200 $^{\circ}C$ Cu50 @0 $^{\circ}C$ , -0~200 Nickel100 $\Omega$ $\alpha= 0.00618$ , -60~180 $^{\circ}C$ Nickel120 $\Omega$ $\alpha= 0.00672$ , -80~260 $^{\circ}C$ Nickel507.5 $\Omega$ $\alpha= 0.00520$ , -80~260 $^{\circ}C$ Nickel604 $\Omega$ $\alpha= 0.00518$ , -200~200 BALCO500 -40~150 $^{\circ}C$	Field-to-Logic: 2500 VDC	
		<b><u>Environmental</u></b>	
		Temperature: -25 to +70 $^{\circ}C$ (Operating) -30 to +75 $^{\circ}C$ (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>	
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