



# W-M1B113

## 6 Channels RTD Input Module



### Features

- Current 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.

#### Analog Input

Input Type	RTD
Sampling Rates	2.5 Samples / Second per channel
Resolution	16-bit
Accuracy	$\pm 0.1\%$ FSR
Input Impedance	Voltage: 2 M $\Omega$
Span Drift	$\pm 25$ ppm/ $^{\circ}C$
Zero Drift	$\pm 6$ $\mu V$ / $^{\circ}C$
Input Voltage Protection	$\pm 55$ V
Channel Independent Configuration	Yes
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 $^{\circ}C$

#### Communication

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

#### Environmental

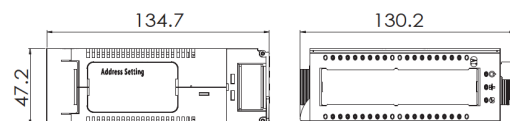
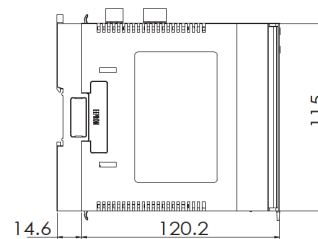
Operating Temp.	-25 ~ 70 $^{\circ}C$
Storage Temp.	-30 ~ 75 $^{\circ}C$
Operating Relative Humidity	10% to 90% (non-condensing)

#### Dimension

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

#### Ordering Information

W-M1B113	6 channels RTD input module
----------	-----------------------------



#### General

Power Consumption	2.8W @ 24 VDC
Power Requirement	10 ~ 60 VDC
Watchdog Timer	1.6 Second Fixed
Intra-Module Isolation, Field-to-Logic	2500 VDC