



Prohibiting Use of Hazardous Substances

This is module which inputs 3ch of DC signal and 3ch of RTD input.
It is compatible with Modbus (RTU) of general purpose protocol.

Features

- ★ 3ch input of DC voltage / current, and 3ch RTD input (Total 6ch)
- ★ RS-485 Modbus (RTU) compatible
- ★ Zero span adjustment and low cut setting by RS-485
- ★ Baud rate and Node address setting by front switch
- ★ Easy maintenance by removable terminal block from body

Ordering code

WMB - MAI6 - F D 00

Series	Type	Input	RTD Type	Power supply	Test report	Suffix	Description
WMB							Series Modbus I/O module
	MAI6						Type Analog input 3ch, RTD input 3ch
		11					0~100mVDC (Input resistance 1MΩ)
		12					0~1VDC (Input resistance 1MΩ)
		13					0~5VDC (Input resistance 1MΩ)
		14					1~5VDC (Input resistance 1MΩ)
		15					0~10VDC (Input resistance 1MΩ)
		23					±1VDC (Input resistance 1MΩ)
		24					±5VDC (Input resistance 1MΩ)
		25					±10VDC (Input resistance 1MΩ)
		35					0~20mA (Input resistance 50Ω)
		36					4~20mA (Input resistance 50Ω)
		56					4~20mA (Input resistance 250Ω)
			F				RTD Type Pt100Ω
			D				Power supply 24VDC ±10%
				0			Test report Without test report
				1			With test report
					00		Suffix Standard

Specifications

◆ Input Specifications

Input signal	DC voltage / current, RTD
Number of inputs	3ch Analog input, 3ch RTD input (Total 6ch)
Input Configuration	Single ended
A/D conversion	ΔΣ conversion
Sampling rate	Apporx. 150ms/1ch
Allowable input	±0.1% Full scale
Influence of ambient temperature	±0.01% Full scale per °C
Input common	1 common for each input
Setting	Span/zero adjustment, Simulated input, Low cut (Setting by RS-485)
RTD Type	Pt100Ω
RTD temperature range	-50°C to 200°C

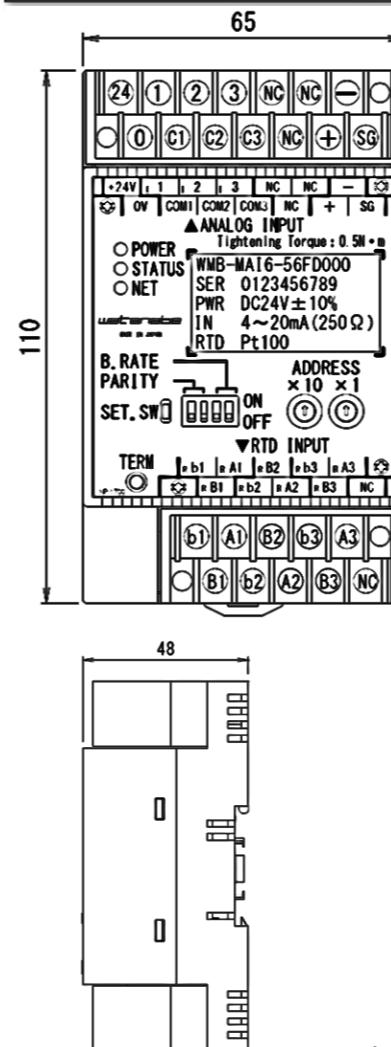
◆ Standard Specifications

Power supply	24VDC ±10%
Power consumption	Less than 50mA max.
Operating temperature/humidity	-5 to 55°C, 90% (non-condensing)
Storage temperature/humidity	-20 to 60°C, 90% (non-condensing)
Warm-up time	30 min
Dielectric strength	1500VAC per 1 min. : Between Power -
Insulation resistance	500Vdc, 100MΩ or more
Dimensions	65(W) x 110(H) x 48mm(D) DIN size
Weight	Approx. 220g
Connection	M3 screw terminal block (removable), 14P, 10P (Tightening torque 0.5N·m)
Mounting	DIN rail or wall surface

◆ RS-485 Specifications

Standard	Conform to RS-485
Baud rate	4800 / 9600 / 19200 / 38400 bps (Selectable by DIP switch)
Terminal resistance	Approx. 120Ω (Standard accessory)
Max. No. of connection	31
Node address	1 to 99 (Setting by Rotary switch)
Transmission distance	Approx. 500m or less (Depends on connection device and)
Communication form	1:N communication
Protocol	Modbus (RTU) protocol

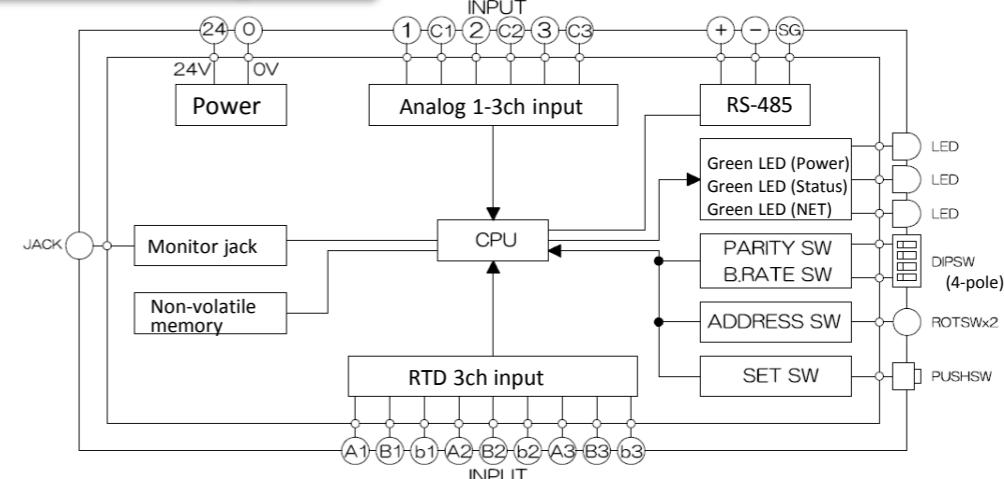
Demensions



Unit : mm

No	Symbol	Description
24	Power supply	+24V
0		0V
1		I1 Analog input 1
C1		COM1 Common 1
2		I2 Analog input 2
C2		COM2 Common 2
3		I3 Analog input 3
C3		COM3 Common 3
		No connection
+		RS-485 + terminal
-		RS-485 - terminal
SG		RS-485 SG terminal
b1		b1 RTD input b1
B1		B1 RTD input B1
A1		A1 RTD input A1
b2		b2 RTD input b2
B2		B2 RTD input B2
A2		A2 RTD input A2
b3		b3 RTD input b3
B3		B3 RTD input B3
A3		A3 RTD input A3
		No connection

Block Diagram



* Specification is subject to change without notice