



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	MAI6						Series Modbus I/O module
							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					0~20mADC (Input resistance 50Ω)
		36					4~20mADC (Input resistance 50Ω)
		56					4~20mADC (Input resistance 250Ω)
			F				RTD Type Pt100Ω
				D			Power supply 24VDC ±10%
					0		Test report Without test report
					1		Test report 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

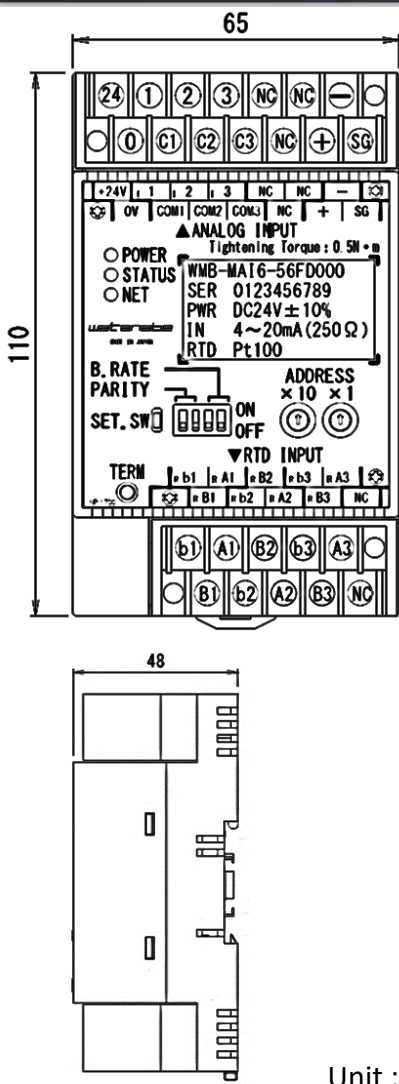
Standard Specifications

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 terminai 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

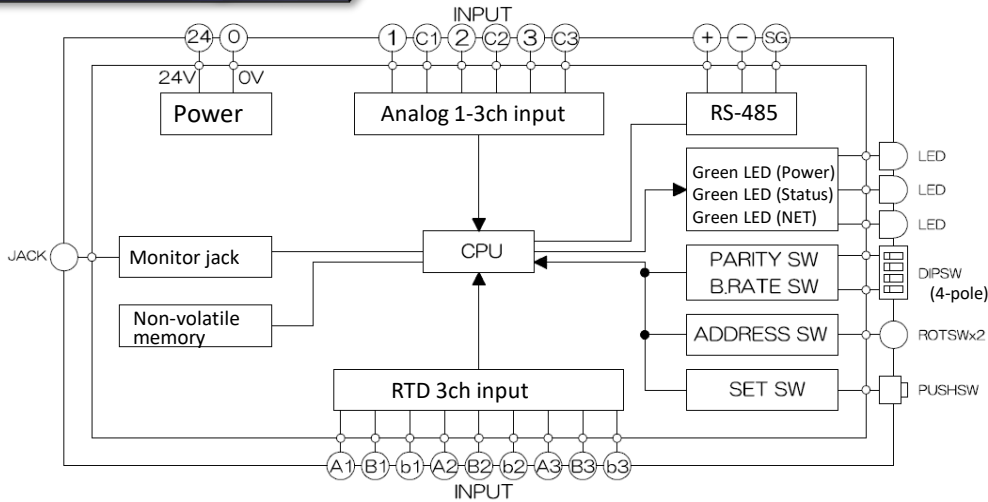
Demensions



Unit : mm

No	Symbol	Description
24	Power supply	+24V
0		0V
1	Analog input	I1
C1		COM1
2		I2
C2		COM2
3	Analog input	I3
C3		COM3
	NC	No connection
	NC	No connection
	NC	No connection
+	RS485	+
-		-
SG		SG
b1	RTD input	b1
B1		B1
A1		A1
b2		b2
B2		B2
A2		A2
b3		b3
B3		B3
A3		A3
	NC	No connection

Block Diagram



* Specification is subject to change without notice