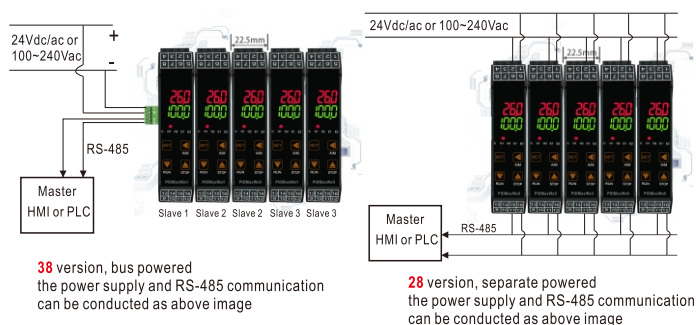# *3 Years Warranty !!*

General features:

- DIN rail mount, 22.5mm width
- TC/RTD/Analog, Universal input
- NPID,APID,Autotune,ON-OFF control mode
  artificial intelligence fuzzy logic PID control algorithem
- 0.25%F.S measuring accuracy
- Dual display,4 digits,7 segments LED display
- ^{o}C/^{o}F display selectable
- Excellent performance, very limited overshoot and undershoot
- 0.1 maximum resolution for TC/RTD, 0.001 maximum resolution for analog input
- Fast sampling rate at 250ms, suitable for both temperature or pressure control application

- Touch button, feedback beep sound when you tap on the buttons this is a very useful features for user to track the operation not only visually, but aslo auditory.
- Bus power supply or independent power supply optional
- Ultra high brightness LED, excellent readability under direct sunlight
- 100~240Vac or 24VDC/AC source optional
- Very small temperature drift,<0.03%FS/^{o}C
- Modbus RS-485 communication optional
- Ultra low power consumption less than < 5W
- Output specs: Relay 2A 250Vac or 24VDC
  SSR Drive(12VDC 50mA)
  4-20mA, 0-10VDC

Ordering Information

MAU90 — 1 — 2 — 3 — 4 — 5 — 6 — 7

1:Power supply format

28	Separate powered version
38	Bus powered version
	Please check below detailed information on the difference between version 28 and 38

38 version, bus powered
the power supply and RS-485 communication
can be conducted as above image

28 version, separate powered
the power supply and RS-485 communication
can be conducted as above image

2:Input

1	Code "1" for factory default input, compatible with TC/RTD and voltage signal, signal listed below is available Thermocouple: K, S, R, T, E, J, B,N, WRe3-WRe25, WRe5-WRe26. RTD: PT100, Cu50 Voltage: 0~75mV, 0~20mV, 0~100mV, 0~60mV, 0~500mV, 100~500mV 　　　　　1-5V, 0~5V, 0~10V, 2~10V, 0~20V.
2	Code "2" means input compatible with TC/RTD and 4-20mA, 0-20mA, when input selected as "2 ", extra 24VDC auxiliary power supply will be embedded as well, as 4-20mA signal often comes from various transmitters, 24VDC source can be used to power transmitters. signal listed below is available. Thermocouple: K, S, R, T, E, J, B,N, WRe3-WRe25, WRe5-WRe26. RTD: PT100, Cu50 Analog singal: 4-20mA, 0-20mA Additional 24VDC auxiliary power supply embedded.

3:Output

1	Relay
2	SSR Drive
3	4-20mA
4	0-10Vdc
5	1-5Vdc

4:Alarm(fixed option)

1	1 alarm(relay output NO+NC)

5:Auxiliary ouptut

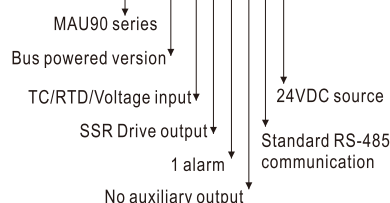|	
0	DIN rail version do not have this option

6:Communication

0	Without communication
1	MT BUS RS-485 communication, free computer software for programming
3	Standard ModBus RS-485 communication

7:Power supply

A	100~240Vac 50/60HZ
D	24VDC source
24VAC	24Vac source

Ordering example: MAU90-38-1-2-1-0-3-D

MAU90 series
Bus powered version
TC/RTD/Voltage input
SSR Drive output
1 alarm
No auxiliary output
24VDC source
Standard RS-485 communication

## Panel Layout

1: Upper display(Process value and parameter notation indication)
2: Lower display(Setting value and parameter value indication)
3: Set key
4: Shift key(Auto/manual transfer key,MAU90 do not have auto/manual control function)
5: Decrease key
6: Increase key
7: 4 LED indicators, C for communication indication, O1 and O2 for output indication, E1 and E2 for alarm indication

Wiring diagram

This is the wiring diagram for MAU90-28 separate powered version
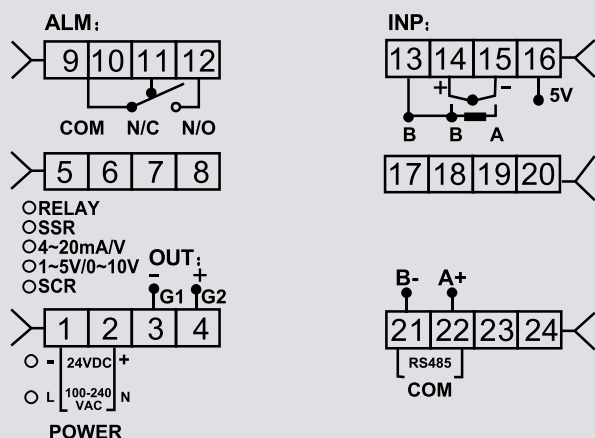
This is the wiring diagram for MAU90-38 bus powered version

Sizes

109mm
115mm
22.5mm
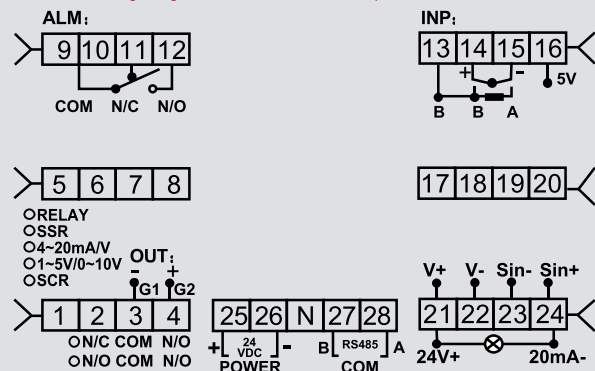
Compliance

IEC/EN 61326(EMI/EMC)
IEC/EN 61010 Revision 3 2010 Edition(Safety)
CE and RoHs

Free PC software for programming
(only available when you select MT BUS RS-485 communication as communication)

USB to RS-485 converter

The programming of PID controller can be a little bit challenge, to reduce customer's workload, we designed a free PC software for the programming purpose. all you need is a USB to RS-485 cable, the software is designed to simplify instrument set up. the software only available when you choose the the option "1" as the communication option, below is a screen shot of the software