



### Features:

- Dual display, 4 digits, 7 segments LED display
- TC / RTD input, analog universal input
- PID, PID Autotune, ON-OFF
- 0.3%F.S measuring accuracy
- Bar graphic display indication
- °C/°F display selectable
- Alarm standby function
- Soft-start function for analog output
- Optional features
  - RS485 Modbus RTU Communication
  - PV/SV Re-transmission
  - 2 alarms(standard package with 1 alarm only)

### Technical Specifications

#### Ordering Information

- MTA-48** (48mm\*48mm)(Width\*Height)  
**MTA-49** (48mm\*96mm)(Width\*Height)  
**MTA-94** (96mm\*48mm)(Width\*Height) **1** **2** **3** \* **4** **5**  
**MTA-72** (72mm\*72mm)(Width\*Height)  
**MTA-96** (96mm\*96mm)(Width\*Height)

#### 1:Main output

- R** Relay output  
**V** SSR Drive/Voltage pulse output  
**D** 4-20mA output

#### 2:Number of Alarms

- 1** 1 alarm  
**2** 2 alarms

#### 3:Power Source

- 96** 85~265Vac 50/60HZ

#### 4:Process Value or Setting value Re-transmission output

- N** Without Re-transmission  
**P42** PV Re-transmitted as 4-20mA  
**P010** PV Re-transmitted as 0-10Vdc  
**S42** SV Re-transmitted as 4-20mA  
**P010** SV Re-transmitted as 0-10Vdc

#### 5:Communication

- N** Without Communication  
**K** With Modbus RTU RS-485 communication

Example: MTA-48-R-1-96-N-N(48mm\*48mm, Relay output, 1 alarm, 85~265V)

#### Product Images



#### Display

Digits	4 digits 7 segments LED, Dual display
LED Indicators	OUT1, OUT2, AT, AL1, AL2, AL3, MAN, COM, PRO

#### Input Specifications

Inputs	Thermocouple(K, J, R, S, B, T, E, N, Wu3_Re25) RTD(PT100) DC Analog Inputs(2-10Vdc, 1-5Vdc, 4-20mA) (0-10Vdc, 0-5Vdc, 0-20mA) (0-50mV, 0-20mV)
Sampling time	500ms
Input Filter(FTC)	0 to 60( 1-30 normal, 31-60 enhanced)
Resolution	1/0.1° for TC/RTD only Decimal point position selectable: 1/0.1/0.01/0.001 for analog input
Temperature Unit	°C/°F Selectable
Indication Accuracy	For TC inputs: 0.3% of F.S. ± 1° For R & S type TC inputs: 0.5% of F.S. ± 2° (20 min of warm up time for TC inputs) For RTD inputs: 0.2% of F.S. ± 1° For Analog input: ± 0.5%. ± 1 digit (F.S.=Full Scale)

#### Output Specifications

Main Control Output	1 main output, heating or cooling selectable
Contact Rating(SPST)	5A @ 250Vac Resistive Load(Main Output) 3A @ 250Vac Resistive Load(Alarm output)
Current	0/4 to 20mA DC(loop impedance: 500Ω max.)
SSR Drive	12V DC(20mA)
Retransmission	
Current	4 to 20mA DC(loop impedance: 500Ω max.)
Voltage	0 to 10Vdc(Load resistance: 10KΩ Min)

#### Supply Voltage

Supply Voltage	85~265Vac 50/60HZ
Power Consumption	6VA max @230Vac

#### Environmental Specifications

Temperature	Operating: 0 to 50°C(32 to 122°F) Storage: -20 to 75°C(-4 to 167°F)
Humidity(non-condensing)	95%RH
Weight	0.17kg(48mm*48mm) 0.25kg(48mm*96mm, 96mm*48mm) 0.27kg(72mm*72mm) 0.32kg(96mm*96mm)
Protection	Dust proof for front plate

