



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 |

