



MX7-10 CONTROLLER



Features

- Various I/O Types.
- Sampling cycle 0.5 sec. -can revise the PV high spot and the low point.
- Maximum with 3 sets of alarm - more than 20 alarm modes available.
- Remote SV / Transmission.
- RS-485 Communication(MODBUS).
- TTL Communication.
- RS-232 deposit and withdrawal function.
- Program 2 patterns 8 segments (programs events).
- Output2 4~20mA transmission(forward and reverse)
- Heating and Cooling Control.
- Motor valve control.
- SCR / TRIAC Trigger.
- Current monitoring alarm.



Specifications

| | | |
|---------------------------|--------------------------------|--|
| Input | Type of Input | TC(K,J,R,S,B,E,N,T,W,PLII,U,L) RTD(PT100,JPT100,JPT50) Linear(0~1V,0~5V,0~10V,1~5V,2~10V,-10~10mV,0~10mV 0~20mV,0~50mV,10~50mV,4~20mA,0~20mA) |
| | Input Sampling Time | 250 ms |
| | Input Resolution | 16 bit(Each) |
| | Indication | PV/SV Indication Constant Value System Indication Accuracy |
| Control Mode | Proportional Band(P) | 0~200 % (ON-OFF action at P=0) |
| | Integral Time(I) | 0~3600 sec. (PD action at I=0) |
| | Derivative Time(D) | 0~900 sec. (PI action at D=0) |
| | Cycle Time | 0~150 sec. (4~20mA→0,SSR→1,Relay→15) |
| | Dead Band Time | 0~1000 sec. (dead time compensation) |
| Output out1/out2 | Relay Output | Contact,SPDT,3A240VAC |
| | Voltage Output | Voltage Pulse, 20VDC/20mA |
| | Linear Output | 4~20mA,0~5V,0~10V,1~5V,2~10V |
| | Output Type | Output1:Heat/Cool ; Output2:Cool |
| Alarm | Channel | 3 channel(AL1/AL2/AL3) |
| | Mode | 20 alarm Modes Available |
| | Timer | Flicker Alarm, Continued Alarm, on Delay Timer Alarm |
| General Specifications | Rated Power Supply & Frequency | AC 85~265V,50/60HZ |
| | Power Consumption | 4VA |
| | Ambient Temperature | -25℃~65℃ |
| | Ambient Humidity | 50~85% RH(non condensing) |



Model & Suffix codes



1. Dimensions
1 72x72 mm

2. Output 1
0 None
1 Relay
2 SSR
3 4~20mA
4 0~20mA
5 1 φ SCR zero cross control
6 3 φ SCR zero cross control
7 Motor valve control
8 1 φ SCR phase angle control
9 3 φ SCR phase angle control
A 0~5V
B 0~10V
C 1~5V
D 2~10V

3. Output 2
0 None
1 Relay
2 SSR
3 4~20mA
4 0~20mA
A 0~5V
B 0~10V
C 1~5V
D 2~10V

4. Alarm
0 None
1 1 Set
2 2 Sets
3 3 Sets

5. Transmission
0 None
1 4~20mA
2 0~20mA
A 0~5V
B 0~10V
C 1~5V
D 2~10V

6. Remote SV
0 None
1 4~20mA
2 0~20mA
A 0~5V
B 0~10V
C 1~5V
D 2~10V

7. Communication
0 None
1 RS232
2 RS485
3 TTL
A RS232_MODBUS
B RS485_MODBUS

8. Input Type
Refer to type table

9. Power
A AC 85~265V
D DC24V



Input type table

| Type | 1 | 2 | 3 | 4 | 5 | 6 |
|---------|-----------------------------|------------------------------|------------------------------|--|---|--------------|
| K | K1/0.0~200.0°C | K2/0.0~400.0°C | K3/0~600°C | K4/0~800°C | K5/0~1000°C | K6/0~1200°C |
| J | J1/0.0~200.0°C | J2/0.0~400.0°C | J3/0~600°C | J4/0~800°C | J5/0~1000°C | J6/0~1200°C |
| R | R1/0~1600°C | R2/0~1769°C | | | | |
| S | S1/0~1600°C | S2/0~1769°C | | | | |
| B | B1/0~1820°C | | | | | |
| E | E1/0~800°C | E2/0~1000°C | | | | |
| N | N1/0~1200°C | N2/0~1300°C | | | | |
| T | T1/-199.9~400.0°C | T2/-199.9~200.0°C | T3/0.0~350.0°C | | | |
| W | W1/0~2000°C | W2/0~2320°C | | | | |
| PL | PL1/0~1300°C | PL2/0~1390°C | | | | |
| U | U1/-199.9~600.0°C | U2/-199.9~200.0°C | U3/0.0~400.0°C | | | |
| L | L1/0~400°C | L2/0~800°C | | | | |
| JP100Ω | JP1/-199.9~600.0°C | JP2/-199.9~400.0°C | JP3/-199.9~200.0°C | JP4/0~200°C | JP5/0~400°C | JP6/0~600°C |
| DPT100Ω | dP1/-199.9~600.0°C | dP2/-199.9~400.0°C | dP3/-199.9~200.0°C | dP4/0~200°C | dP5/0~400°C | dP6/0~600°C |
| JP50.Ω | JP.1/-199.9~600.0°C | JP.2/-199.9~400.0°C | JP.3/-199.9~200.0°C | JP.4/0~200°C | JP.5/0~400°C | JP.6/0~600°C |
| AN1-5 | An1/ -10~10mv -1999~9999 | An2/0~10mv x 2 -1999~9999 | An3/0~20mv x 5 -1999~9999 | An4/0~50mv 0~20mA 0~5V -1999~9999 | An5/10~50mv 4~20mA 1~5V -1999~9999 | |