MaxWell

Programmable Controller

MTC-P Serials

- Power supply 85~265Vac 50/60Hz
- High accuracy 0.2%F.S
- Selectable input from panel(TC,RTD,Analog)
- Relay/SSR Drive/4-20mA output
- Heating or cooling control mode
- Various alarm mode
- Auto/Manual bumpless transfer from front panel
- PV/SV re-transmission output optional
- RS-485 communication optional
- Master/Slave communication mode
- 24VDC auxiliary power supply available
- Various program execution mode
- User friendly

Ordering Information



1:Size Information

- 48: 48mm(Width)*48mm(Height)
- **49**: 48mm(Width)*96mm(Height)
- 72: 72mm(Width)*72mm(Height)
- 96: 96mm(Width)*96mm(Height)
- 94: 96mm(Width)*48mm(Height)

2:Version Code

P: Programmable temperature controller also known as Ramp and soak controller

7: 1-5VDC

3:Output

- R:
 Relay
 5:
 0-5VDC

 V:
 SSR drive
 6:
 0-10VDC
- D: 4-20mA
- 2: 0-20mA

4: Alarm options

- 1: 1 alarm
- 2: 2 alarms
- 3: 3 alarms

5:Power supply

96: 85~265VAC

6:Re-transmission

- N: Without re-transmission
- P42: PV re-transmission as 4-20mA
- P005: PV re-transmission as 0-5VDC
- P010: PV re-transmission as 0-10VDC S42: SV re-transmission as 4-20mA
- **S42:** SV re-transmission as 4-20mA **S005:** SV re-transmission as 0-5VDC
- **S010:** SV re-transmission as 0-10VDC
- 7:Communication
 - N: Without communication
 - K: RS-485 Modbus RTU

8: Auxiliary Power supply

N: Without auxiliary power supply24: 24VDC

Detailed Features

- Input Signals
- TC:K,S,E,J,T,B,N,R RTD:Pt100

Analog signal:0-5V,1-5V,0-10V,2-10V,0-20mV,0-50mV,4-20mA, 0-10mA,0-20mA

Display

ensors

S

ensors/Capacitive

õ

Proximity

Encoder/I

otary

Relay/R

Controller/Solid State

perature

Dual line four digits LED display, bar graphic display. Celcius and Fahrenheit switchable

Measuring accuracy and resolution

0.2% F.S accuracy, maximum 0.1 resolution for TC and RTD input, 0.001 resolution for analog signal such as 4-20mA.

Main output

Relay contact output, SSR Drive output, 4-20mA output, 0-20mA output, 0-5Vdc output 0-10Vdc output, 1-5Vdc output

Control action

Heating or cooling control configurable, PID algorithm. when P=0, ON/OFF control.

• Alarm and alarm mode

Maximum 3 alarms, 15 different alarm modes, refer to user manual for detailed alarm modes

• Auto/manual control switch

Auto/manual bumpless switch between each other, available for all sizes except size 48mm*48mm

• PV/SV Re-transmission function

The process value or setting value can be re-transmitted as analog signal such as 4-20mA

• Decimal pp

The process value or setting value can be re-transmitted as analog signal such as 4-20mA

Programming

Maximum 4 programs can be programmed, each program with maximum 8 segments, all different program can be linked as one program with maximum 32 segments.

Output restriction

The maximum output can be restrained in certain range, for example 80%, maximum output can be defined at specific segments

System timing

The system timing unit can be seconds, hours, or minutes and field configurable

Program monitoring

Be able to check current running segments and program running time. RS-485 optional for remote monitoring and configuration

Program control

- >Program can be executed from "0" or from the process value
- >Program can be executed automatically right after power on
- >Program can be executed or terminated from front panel
- >Program can be restored after power failure situation.
- >Program can be configured to repeat itself after finish a program
- >Program can be configured to STOP itself after finish a program

Holdback function

Holdback indicates that the process value is lagging the set point by more than a preset amount and that the program is in HOLD, waiting for the process to catch up.

Master/Slave communication mode

Number of controllers can be connected to a master controller as slave controller, any setting you made to the master controller will be reflected to the slave controller. This will save a lot of time if more controllers are doing the same job at the same time with same settings.





Ramp and Soak Controller/Profile Controller





A typical application

JP PROGRESS ENGINEERING.CO.LTO



www.jpprogress.com ,www.dehutech.com, email: jppe_sales@hotmail.com

PV/SV mode

SET maximum output as 0.0% for #6 segment