

## TEMPERATURE CONTROLLERS



TEA-1

### Button setting, whole volume range indicating thermoregulator

Input signal: thermocouple, thermal resistance  
 Accuracy:  $\pm 1\%F.S. \pm 1.5\%F.S.$   
 Law of regulation: Two-phase style, time proportion adjustment style  
 Alarm function: It has alarm function  
 Temperature range: 0-1600°C  
 Output: relay AC220V 3A resistance  
 Power source: AC110V/220V/380V 50/60Hz  
 Outer dimension: 96 × 96 × 150mm  
 Hole dimension: 92 × 92mm



TEA-2

### Button setting, deviation indicating thermoregulator

Input signal: thermocouple  
 Accuracy:  $\pm 1\%F.S. \pm 1.5\%F.S.$   
 Law of regulation: two-phase style, time proportion adjustment style  
 Alarm function: none  
 Temperature range: 0-1600°C  
 Output: relay AC220V 3A resistance  
 Power source: AC110V/220V/380V 50/60Hz  
 Outer dimension: 96 × 96 × 150mm  
 Hole dimension: 92 × 92mm



TEL

### Button setting, deviation indicating thermoregulator

Input signal: thermocouple, thermal resistance  
 Accuracy:  $\pm 1\%F.S. \pm 1.5\%F.S.$   
 Law of regulation: two-phase style, time proportion adjustment style  
 Alarm function: none  
 Temperature range: 0-1600°C  
 Output: relay AC220V 3A resistance  
 Power source: AC110V/220V/380V 50/60Hz  
 Outer dimension: 96 × 96 × 150mm  
 Hole dimension: 92 × 92mm



TEA-3

### Button setting, no indicating thermoregulator

Input signal: thermocouple, thermal resistance  
 Accuracy:  $\pm 1\%F.S. \pm 1.5\%F.S.$   
 Law of regulation: two-phase style, time proportion adjustment style  
 Alarm function: It has alarm function  
 Temperature range: 0-1600°C  
 Output: relay AC220V 3A resistance  
 Power source: AC110V/220V/380V 50/60Hz  
 Outer dimension: 96 × 96 × 150mm  
 Hole dimension: 92 × 92mm



TDW

### Button setting, whole volume range indicating thermoregulator

Input signal: thermocouple, thermal resistance  
 Accuracy:  $\pm 1\%F.S. \pm 1.5\%F.S.$   
 Law of regulation: two-phase style, time proportion adjustment style  
 Alarm function: It has alarm function  
 Temperature range: 0-1800°C  
 Output: relay AC220V 3A resistance  
 Power source: AC110V/220V/380V 50/60Hz  
 Outer dimension: 160 × 80 × 150mm  
 Hole dimension: 155 × 75mm



4BIC-M

### Button setting, no indicating thermoregulator

Input signal: thermocouple  
 Accuracy:  $\pm 1.5\%F.S.$   
 Law of regulation: two-phase style, time proportion adjustment style  
 Alarm function: It has alarm function  
 Temperature range: 0-1200°C  
 Output: relay AC220V 3A resistance  
 Power source: AC110V/220V/380V 50/60Hz  
 Outer dimension: 72 × 72 × 110mm  
 Hole dimension: 68 × 68mm



JTC-702

### Button setting, no indicating thermoregulator

Input signal: thermocouple  
 Accuracy:  $\pm 1\%F.S. \pm 1.5\%F.S.$   
 Law of regulation: two-phase style, time proportion adjustment style  
 Alarm function: It has alarm function  
 Temperature range: 0-1200°C  
 Output: relay AC220V 3A resistance  
 Power source: AC110V/220V/380V 50/60Hz  
 Outer dimension: 72 × 72 × 110mm  
 Hole dimension: 68 × 68mm



JTC-703

### Button setting, deviation indicating thermoregulator

Input signal: thermocouple  
 Accuracy:  $\pm 1\%F.S. \pm 1.5\%F.S.$   
 Law of regulation: two-phase style, time proportion adjustment style  
 Alarm function: It has alarm function  
 Temperature range: 0-1200°C  
 Output: relay AC220V 3A-SSR  
 Power source: AC110V/220V/380V 50/60Hz  
 Outer dimension: 72 × 72 × 110mm  
 Hole dimension: 68 × 68mm



JTC-902

### Button setting, no indicating thermoregulator

Input signal: thermocouple  
 Accuracy:  $\pm 1.5\%F.S.$   
 Law of regulation: two-phase style, time proportion adjustment style  
 Alarm function: none  
 Temperature range: 0-1200°C  
 Output: relay AC220V 3A-SSR  
 Power source: AC110V/220V/380V 50/60Hz  
 Outer dimension: 96 × 96 × 145mm  
 Hole dimension: 90 × 90mm



JTC-903

### Button setting, deviation indicating thermoregulator

Input signal: thermocouple  
 Accuracy:  $\pm 1\%F.S. \pm 1.5\%F.S.$   
 Law of regulation: two-phase style, time proportion adjustment style  
 Alarm function: It has alarm function  
 Temperature range: 0-1200°C  
 Output: relay AC220V 3A-SSR  
 Power source: AC110V/220V/380V 50/60Hz  
 Outer dimension: 96 × 96 × 145mm  
 Hole dimension: 90 × 90mm

# TEMPERATURE CONTROLLERS



TE-01/02

### Dial setting, no indicating thermoregulator

Input signal: thermocouple, thermal resistance  
Accuracy:  $\pm 1\%F.S. \pm 1.5\%F.S.$   
Law of regulation: two-phase style, time proportion adjustment style  
Alarm function: It has alarm function  
Temperature range: 0-1200°C  
Output: relay AC220V 3A resistance  
Power source: AC110V/220V/380V 50/60Hz  
Outer dimension: 48 × 48 × 150mm  
Hole dimension: 45 × 45mm



TDA

### Button setting, whole volume range indicating thermoregulator

Input signal: thermocouple, thermal resistance  
Accuracy:  $\pm 1\%F.S. \pm 1.5\%F.S.$   
Law of regulation: two-phase style, time proportion adjustment style  
Alarm function: It has alarm function  
Temperature range: 0-1200°C  
Output: relay AC220V 3A resistance  
Power source: AC110V/220V/380V 50/60Hz  
Outer dimension: 60 × 120 × 150mm  
Hole dimension: 55 × 116mm



TEG

### Dial setting, no indicating thermoregulator

Input signal: thermocouple, thermal resistance  
Accuracy:  $\pm 1\%F.S. \pm 1.5\%F.S.$   
Law of regulation: two-phase style, time proportion adjustment style  
Alarm function: none  
Temperature range: 0-400°C  
Output: relay AC220V 3A resistance  
Power source: AC110V/220V/380V 50/60Hz  
Outer dimension: 48 × 48 × 150mm  
Hole dimension: 45 × 45mm



TDA-H

### Button setting, whole volume range indicating thermoregulator

Input signal: thermocouple, thermal resistance  
Accuracy:  $\pm 1\%F.S. \pm 1.5\%F.S.$   
Law of regulation: two-phase style, time proportion adjustment style  
Alarm function: It has alarm function  
Temperature range: 0-1200°C  
Output: relay AC220V 3A resistance  
Power source: AC110V/220V/380V 50/60Hz  
Outer dimension: 120 × 60 × 150mm  
Hole dimension: 116 × 55mm



TED

### Button setting, whole volume range indicating thermoregulator

Input signal: thermocouple, thermal resistance  
Accuracy:  $\pm 1\%F.S. \pm 1.5\%F.S.$   
Law of regulation: two-phase style, time proportion adjustment style  
Alarm function: It has alarm function  
Temperature range: 0-1600°C  
Output: relay AC220V 3A resistance  
Power source: AC110V/220V/380V 50/60Hz  
Outer dimension: 72 × 72 × 150mm  
Hole dimension: 68 × 68mm



TEEE

### Potentiometer setting, whole volume range indicating thermoregulator

Input signal: thermocouple, thermal resistance  
Accuracy:  $\pm 1\%F.S. \pm 1.5\%F.S.$   
Law of regulation: two-phase style, time proportion adjustment style  
Alarm function: It has alarm function  
Temperature range: 0-1200°C  
Output: relay AC220V 3A resistance  
Power source: AC110V/220V/380V 50/60Hz  
Outer dimension: 48 × 96 × 140mm  
Hole dimension: 45 × 92mm



TED-1

### Button setting, whole volume range indicating thermoregulator

Input signal: thermocouple, thermal resistance  
Accuracy:  $\pm 1\%F.S. \pm 1.5\%F.S.$   
Law of regulation: two-phase style, time proportion adjustment style  
Alarm function: It has alarm function  
Temperature range: 0-1600°C  
Output: relay AC220V 3A resistance  
Power source: AC110V/220V/380V 50/60Hz  
Outer dimension: 72 × 72 × 110mm  
Hole dimension: 68 × 68mm



TDB

### Encoded setting, deviation indicating thermoregulator

Input signal: thermocouple  
Accuracy:  $\pm 1\%F.S. \pm 1.5\%F.S.$   
Law of regulation: two-phase style, time proportion adjustment style  
Alarm function: It has alarm function  
Temperature range: 0-399°C  
Output: relay AC220V 3A resistance  
Power source: AC110V/220V/380V 50/60Hz  
Outer dimension: 48 × 96 × 140mm  
Hole dimension: 45 × 92mm



TED-4001

### Button setting, no indication thermoregulator

Input signal: thermocouple, thermal resistance  
Accuracy:  $\pm 1.5\%F.S.$   
Law of regulation: two-phase style, time proportion adjustment style  
Alarm function: It has alarm function  
Temperature range: 0-1200°C  
Output: relay AC220V 3A resistance  
Power source: AC110V/220V/380V 50/60Hz  
Outer dimension: 72 × 72 × 110mm  
Hole dimension: 68 × 68mm



ESEM

### Encoded setting, deviation indicating thermoregulator

Input signal: thermocouple  
Accuracy:  $\pm 1\%F.S. \pm 1.5\%F.S.$   
Law of regulation: two-phase style, time proportion adjustment style  
Alarm function: It has alarm function  
Temperature range: 0-399°C  
Output: relay AC220V 3A resistance  
Power source: AC110V/220V/380V 50/60Hz  
Outer dimension: 48 × 96 × 140mm  
Hole dimension: 45 × 92mm

# TEMPERATURE CONTROLLERS



JTC-905

**Button setting,digital display thermoregulator**

Input signal:thermocouple  
Accuracy:  $\pm 1\%F.S.\pm 1.5\%F.S.$   
Law of regulation:two-phase style,time proportion adjustment style  
Alarm function:It has alarm function  
Temperature range:0-1200°C  
Output:relay AC220V 3A-SSR  
Power source:AC110V/220V/380V 50/60Hz  
Outer dimension:96×96×145mm  
Hole dimension:90×90mm



PF-4

**Button setting,whole volume range indicating thermoregulator**

Input signal:thermocouple  
Accuracy:  $\pm 1\%F.S.\pm 1.5\%F.S.$   
Law of regulation:two-phase style,time proportion adjustment style  
Alarm function:It has alarm function  
Temperature range:0-1600°C  
Output:relay AC220V 3A resistance  
Power source:AC110V/220V/380V 50/60Hz  
Outer dimension:72×72×110mm  
Hole dimension:68×68mm



JTC-904

**Button setting,whole volume range indicating thermoregulator**

Input signal:thermocouple  
Accuracy:  $\pm 1\%F.S.\pm 1.5\%F.S.$   
Law of regulation:two-phase style,time proportion adjustment style  
Alarm function:It has alarm function  
Temperature range:0-1200°C  
Output:relay AC220V 3A-SSR  
Power source:AC110V/220V/380V 50/60Hz  
Outer dimension:96×96×145mm  
Hole dimension:90×90mm



TC-48

**Button setting,no indicating thermoregulator**

Input signal:thermocouple  
Accuracy:  $\pm 1\%F.S.\pm 1.5\%F.S.$   
Law of regulation:two-phase style,time proportion adjustment style  
Alarm function:It has alarm function  
Temperature range:0-399°C  
Output:relay AC220V 3A resistance  
Power source:AC110V/220V/380V 50/60Hz  
Outer dimension:48×48×110mm  
Hole dimension:45×45mm



TC-1

**Button setting,no indicating thermoregulator**

Input signal:thermocouple  
Accuracy:  $\pm 1.5\%F.S.$   
Law of regulation:two-phase style,time proportion adjustment style  
Alarm function:It has alarm function  
Temperature range:0-1200°C  
Output:relay AC220V 3A resistance  
Power source:AC110V/220V/380V 50/60Hz  
Outer dimension:96×96×122mm  
Hole dimension:88×88mm



ESC2

**Button setting,no indicating thermoregulator**

Input signal:thermocouple  
Accuracy:  $\pm 1.5\%F.S.$   
Law of regulation:two-phase style,time proportion adjustment style  
Alarm function:none  
Temperature range:0-1200°C  
Output:relay AC220V 3A resistance  
Power source:AC110V/220V/380V 50/60Hz  
Outer dimension:48×48×110mm  
Hole dimension:45×45mm



TC-2

**Button setting,deviation indicating thermoregulator**

Input signal:thermocouple  
Accuracy:  $\pm 1\%F.S.\pm 1.5\%F.S.$   
Law of regulation:two-phase style,time proportion adjustment style  
Alarm function:It has alarm function  
Temperature range:0-1200°C  
Output:relay AC220V 3A resistance  
Power source:AC110V/220V/380V 50/60Hz  
Outer dimension:96×96×122mm  
Hole dimension:88×88mm



ESC4

**Button setting,no indicating thermoregulator**

Input signal:thermocouple  
Accuracy:  $\pm 1\%F.S.\pm 1.5\%F.S.$   
Law of regulation:two-phase style,time proportion adjustment style  
Alarm function:none  
Temperature range:0-399°C  
Output:relay AC220V 3A resistance  
Power source:AC110V/220V/380V 50/60Hz  
Outer dimension:48×48×110mm  
Hole dimension:45×45mm



TC-3

**Button setting,whole volume range indicating thermoregulator**

Input signal:thermocouple  
Accuracy:  $\pm 1\%F.S.\pm 1.5\%F.S.$   
Law of regulation:two-phase style,time proportion adjustment style  
Alarm function:It has alarm function  
Temperature range:0-1200°C  
Output:relay AC220V 3A-SSR  
Power source:AC110V/220V/380V 50/60Hz  
Outer dimension:96×96×122mm  
Hole dimension:88×88mm



XMTG

**Button setting,digital display thermoregulator**

Input signal:thermocouple,thermal resistance  
Accuracy:  $\pm 1\%F.S.\pm 1.5\%F.S.$   
Law of regulation:two-phase style,time proportion adjustment style  
Alarm function:It has alarm function  
Temperature range:0-399°C  
Output:relay AC220V 3A resistance  
Power source:AC110V/220V/380V 50/60Hz  
Outer dimension:48×48×120mm  
Hole dimension:45×45mm

## P-C DIGITAL ADJUSTER



P-C900



P-C700



P-C400



P-C100



### APPLICATION

P-C Series intelligence double digital indicate controller adopt advanced ASIS chips and technology and have advantages of small size. The products are manufactured according to the international standards and use transformer or 85-564 VAC wide range input switch power. Multiple installation dimensions(refer to the next form)allow for compatibility with most of the automatic industrial controlling/adjusting instruments in the world in respects of performance specifications, input patterns, output functions and installation dimensions. Therefore, the products are digital controllers at internationally advanced level.

### PRODUCT FEATURES

Imitate digital filter waves

Red and green numerical tubes display PV and SV simultaneously

Digital PID adjustment, all datas input from panel procedure.

Function of sensor revising

Software control full range from 0, no potentiometer.

Manual/automatic switchover control without interferon

Function of second class data lock protection

Self-adaption, self-adjustment

### SPECIFICATION

Input information: thermocouple K.S.E.J.T.B.N

thermal electrical resistance Pt100.Cu50

Input Voltage(V):AC 85V-265V 50/60Hz

rated current: 0-100mA,4-20mA

Type	Out Dimension	Hole dimension	
		A	B
P-C900	96x96x113mm	92 <sup>+0.8</sup>	92 <sup>+0.8</sup>
P-C700	72x72x113mm	68 <sup>+0.7</sup>	68 <sup>+0.7</sup>
P-C400	48x96x113mm	92 <sup>+0.6</sup>	45 <sup>+0.8</sup>
P-C100	48x48x108mm	45 <sup>+0.6</sup>	45 <sup>+0.6</sup>
P96-99301	96x96x100mm	92 <sup>+0.6</sup>	92 <sup>+0.6</sup>

## P-900 DIGITAL ADJUSTER

### APPLICATION

P-900 series intelligent PID digital adjusters adopt advanced ASIC chips and technology and have advantages of small size. The products are manufactured according to the international standards and use 85-264VAC wide range input switch power. Multiple installation dimensions allow for compatibility with most of the automatic industrial controlling/adjusting instruments in the world in respects of performance specifications, input patterns, output functions and installation dimensions therefore the products are digital controllers at internationally advances level.

P-100 series are multi-functional controlling instruments for alarm, transmission, control and communication. The advanced expert PID adjusting algorithm incorporates the advantages of fuzzy controlling and PID controlling and achieves ideal control on objects changing quickly and with long hysteresis. The operation becomes even easier as the instrument gave the function of self fine adjustment.

When adopting bit adjustment, P-900 series can be used to directly replace the traditionally used single display, 2-bit/3-bit/4-bit adjustment, alarm and transmission output in struments. On the other hand, it has more functions including manual/automatic switch over control without interference, self manual adjustment and display output.

### SPECIFICATION

Input information: thermocouple K.S.E.J.T.B.N

thermal electrical resistance Pt100.Cu50

Linearity Voltage: 0-5V,1-5V,0-1V,0-100mV,0-20mV

Linearity Current: 0-100mA,4-20mA,0-20mA

Protection function: EM1/ESD, Watertight

communication function: RS232/RS485

Measure precision: 0.2 class( $\pm 0.2\%FS$ )

Transmission output precision: 0.5 class( $\pm 0.5\%FS$ )

Input Voltage(V):AC 85V-265V 50/60Hz



P-909



P-907



P-908



P-906



P-904

Type	Out Dimension	Hole Dimension
P-909	96x96x100mm	96 $\pm$ 1x91 $\pm$ 1
P-907	72x72x100mm	68 $\pm$ 1x68 $\pm$ 1
P-908	48x96x100mm	45 $\pm$ 1x91 $\pm$ 1
P-906	96x48x100mm	91 $\pm$ 1x45 $\pm$ 1
P-904	48x48x100mm	45 $\pm$ 1x45 $\pm$ 1