MYPIN

TD Series Temperature Controller

Instruction Manual

Thank you for selecting our controller!

Before operating this instrument, please carefully read this manual and fully understand its contents. If any probroms, please contact our sales or distributors whom you buy from. This manual is subject to change without prior notice.

Warning

Please do not connect your controller to main power until all of your wiring is complete and checked.Otherwise electrical shock, fire or malfunction may result.

Do not wire when the power is on. Do not turn on the power supply when cleaning this instrument. Do not disassemble, repair or modify the instrument. This may cause electrical shock, fire or malfunction.Use this instrument in the scope of its specifications. Otherwise fire or malfunction may result. The internal relay's service life is greatly dependent on the current and voltage switched by its contacts. Over-stressing the contacts with too much current or switching vltage above the contact rating will greatly shorten the life of the relay.

Caution This instrument is not rated foroutdoor use and should be used in

a climate controlled environment.

Installing in an environment heavy laden with dust or containing corrosive gasses will cause your controller to fail.

Do not install near water spray, oil spray, or in an environment where water can condense inside the unit.

Avoid running power leads in parallel with high voltage or heavy current carrying conductors that may induce high voltages into the unit. If you must run incoming power near high voltage or heavy current carrying conductors, we suggest that you run the power inside metal conduit that is grounded on one end only.

If installing in an electrically noisy environment, we sug- gest that you protect the unit with a current suppressor or noise filter.

Applications

TA series of temperature controller is available for many TC or RTD input, adopt some advanced techonology such multi digital filter circuit, autotune PID, fuzzy PID that make it is very precise, stable, strong anti-interference and simple operation. The instrument is widely applied to automation systems of mechanism, chemical industrial, chinaware, light industrial, metallurgy and petroleum chemical industrial. It is also applied to the production line of foodstuff, packing, printing, dry machine, metal heat process equipment to control the temperature.





Specifications 90-260V AC/DC 50/60Hz Power supply \leq 5VA Consumption Display range -199~1800°C 0.3%F.S ± 2digit Accuracy Sampling cycle ≤ 300ms Main output RELAY: normal open AC 250V/3A DC 30V/3A COS¢=1 SSR/LOGIC : 24V DC \pm 2V/ 20mA RELAY: normal open AC 250V/3A DC 30V/3A COS C=1 Alarm SSR/LOGIC: 24V DC 12V/ 30mA 0~999°C/0~1200°C T/C 0~999°C /0~1200°C -150~400°C (Special order) 0~1600°C S Input 0~1000°C F Pt100 -199~600°C Rt Cu50 -50~150°C mV 0-75mV mV mΑ mΑ 4-20mA /0-10V 1500V Rms (Betweenpower terminal and the housing ithstand voltage strength in 50M Ω (500V DC) (Between power terminal and the housing Insulation resistance Environment temperature 0~50°C -10~60°C Save temperature 35~85_%RH Environment humidity Weight ≤ 350g А Mounting and Sizes IB С F $\rightarrow F \rightarrow | \rightarrow | \overline{G} | \leftarrow$ Н → В С D Е F G Н Α TD4 44, 5+0, 5 45+0.5 65 65 48 48 8 80 TD6 91+0.5 65 115 96 12 43.5+0.5 48 80 TD7 67.5+0.5 67.5+0.5 95 95 72 72 12 80 TD8 91+0.5 43.5+0.5 65 115 96 48 12 80 TD9 91+0.5 91+0.5 115 115 96 96 12 80

Parameter Setting & Autotuning ☆ Parameters setting: A: In display estate, press SET, P/MV lamp on means SV setting, while off means MV manual output setting, but only on manual operation & input connect do MV settable. B: Press the <</ M key to select the digit you want to modify; C: Press and ∀ key to modify the numerals; D: Press SET key to confirm. ☆ In autotuning estate.output value modification is impossible. Antotuning operation. In display estate, press SET and <</M key at the same time until AT/M lamp flahses. Then ithe instrument is under autotuning estate. Press again to quite. Power on 8.8.8.6 Self-check All LED on 3-8-8-6 35 Displays temperature unit Ľ Input type 3S Ŧ 200 Input up limit 00 Input low limit 35 **Measured displaying** 100.0 Set displaying ↓ ≪и Confirm 0.25 ☆ V Modify 100.0 Shift and flashes SET 0.25 Stop flashing 100.0 In Manual operation/Non-autotune estate, press and hold $^{\wedge}_{\wedge}$ key for more than 3 seconds to enter/quit the below menu for display range settings. ነና ዖ Low limit value, it is adjustable by the input signal 0.00 eg. K type 0-800C, LSP=0.0 SET Up limit value, it is adjustable 11 S P by the input signal. 1 00 S I eg. K type 0-800C, USP=800

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SET

AL1 hysteresis setting value.

 $1.\overline{\mathbf{U}}\,\overline{\mathbf{U}}$ Range \pm 90, factory setting 1.0







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