



AGPTek Dual Display Universal Digital Programmable Temperature Controller User Manual

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PC6—TD4-SNR

This is a bid for a dual display universal digital programmable temperature controller that supports many types of thermocouple sensors. It can be powered by 90- 65V AC/DC or 18-30V AC/DC or 24V DC, Consumption5VA. DIN 1/16. It can also work as a simple digital adjustor.

Manual/ Auto-tuning PID adjustment configurable by software

Manual PID adjustment: set your desire output value to suit your application

Auto-tuning PID adjustment: 3 build-in Auto-Tuning Time proportion PID Algorithms to choose for different applications or environments to be controlled. (for variety of industries or home projects heating or cooling applications.)

Specifications

Display: Dual display for Fahrenheit(F) and Celsius(C)

Range: -1999 to 9999 (depends on the input signal)

Main Output: SSR: Open circuit: 4V, Closed Circuit: 24V 40mA DC

Manual/Auto-tuning PID cooling/heating control(or normal alarm output)

1 RELAY alarm:Normal open, capacity 250V/3A AC or 30V/3A DC

7 different Dual Output combinations with: Accuracy: 0.2%

Input: Thermo Resistor: PT100, Cu50

Thermocouple: J,S,K,E,Wre3 ~ Wre25

Dimension: DIN: 1/16 (48mmX48mmX80mm) Weight: about 150g

Individually programmable PID control parameters.

P, I, d, controlling period, digital filter coefficient, and more... (for control theory experts only)

SSR control ready to connect external Solid State Relay to handle High current. Applications.

Compact design

DIN 1/16, great form-factor to be included/build-in into your product.

Apply with step control, 1 independent PID control for heating/cooling over temperature,pressure,level,flow,etc..Widely used in an auto system in the line of light industry, chemistry, machine, metallurgy, ceramics, petrification industry, or temperature control and adjust system of food & beverage; oven; furnace, plastic extruder heating process, etc; One key operation, Auto-tuning PID/ Fuzzy PID control. Easy operation, Reliable performance Input: TC(K J S E)/ RTD Pt100 CU50 universal input, or 4-20mA/0-10V 0-75mV signal from standard pressure/level transmitter,

Control output: RELAY SSR SCR 4-20mA 0-10V (If 4-20mA or 0-10V DC output,you can choose PID control or analog output) Alarm output: 1 line output,7 kinds of alarm mode: high / low / high deviation / low deviation/ interval / out of interval /breakage alarm

PC7—TA4-SNR+K thermocouple

This is a bid for a dual display universal digital programmable temperature controller that supports many types of thermocouple sensors. It can be powered by 90- 65V AC/DC or 18-30V AC/DC or 24V DC, Comsumption5VA. DIN 1/16

3 build-in Auto-Tuning Time proportion PID Algorithms to choose for different applications or environments to be controlled. (for a variety of industries or home projects heating or cooling applications.)

Specifications

Display: Dual display for Fahrenheit(F) and Celsius(C)

Range: -1999 to 9999 (depends on the input signal)

Main Output: SSR: Open circuit: 4V, Closed Circuit: 24V 40mA DC

Auto-tuning PID cooling/heating control

1 RELAY alarm:Normal open, capacity 250V/3A AC or 30V/3A DC

7 different Dual Output combinations with: Accuracy: 0.2%

Input: Thermo Resistor: PT100, Cu50

Thermocouple: J,S,K,E,Wre3 ~ Wre25

Dimension: DIN: 1/16 (48mmX48mmX80mm)

Net Weight: about 150g

Individually programmable PID control parameters.

P, I, d, controlling period, digital filter coefficient, and more... (for control theory experts only) SSR control ready to connect external Solid State Relay to handle High current. Applications. K type thermocouple, 0-1320 °C, 1m cable(3 feet).

Compact design

DIN: 1/16, great form-factor to be included/build-in to your product.

Apply with step control, 1 independent PID control for heating/cooling over temperature,pressure,level,flow,etc..Widely used in an auto system in the line of light industry, chemistry, machine, metallurgy, ceramics, petrification industry, or temperature control and adjust system of food & beverage; oven; furnace, plastic extruder heating process, etc; One key operation, Auto-tuning PID/ Fuzzy PID control. Easy operation, Reliable performance Input: TC(K J S E)/ RTD Pt100 CU50 universal input, or 4-20mA/0-10V/0-75mV signal from standard pressure/level transmitter,

Control output: RELAY SSR SCR 4-20mA 0-10V (If 4-20mA or 0-10V DC output,you can choose PID control or analog output)

Alarm output: 1 line output,7 kinds of alarm mode: high / low / high deviation / low deviation/ interval / out of interval /breakage alarm

PC8—TA8-SNR+3 feet K thermocouple

This is a bid for a dual display universal digital programmable temperature controller that supports many types of thermocouple sensors. It can be powered by 90- 265V AC/DC or 18-30V AC/DC or 24V DC, Consumption 5VA. DIN 1/8.

3 build-in Auto-Tuning Time proportion PID Algorithms to choose for different applications or environments to be controlled. (for a variety of industries or home projects heating or cooling applications.)

Specifications

Display: Dual display for Fahrenheit(F) and Celsius(C)

Range: -1999 to 9999 (depends on the input signal)

Main Output: SSR: Open circuit: 4V, Closed Circuit: 24V 40mA DC

Auto-tuning PID cooling/heating control

1 RELAY alarm: Normal open, capacity 250V/3A AC or 30V/3A DC

7 different Dual Output combinations with: Accuracy: 0.2%

Input: Thermo Resistor: PT100, Cu50

Thermocouple: J,S,K,E,Wre3 ~ Wre25

Dimension: DIN 1/8 (48HX96WX100Lmm) Net Weight: about 170g

Individually programmable PID control parameters. P, I, d, controlling period, digital filter coefficient, and more... (for control theory experts only) SSR control ready to connect external Solid State Relay to handle High current. Applications. K type thermocouple, 0-1320 °C, 1m cable(3 feet).

Compact design

DIN 1/8 (48HX96WX100Lmm) size, great form-factor to be included/build-in to your product.

Apply with step control, 1 independent PID control for heating/cooling over temperature, pressure, level, flow, etc.. Widely used in an auto system in the line of light industry, chemistry, machine, metallurgy, ceramics, petrification industry, or temperature control and adjust system of food & beverage; oven; furnace, plastic extruder heating process, etc; One key operation, Auto-tuning PID/ Fuzzy PID control. Easy operation, Reliable performance Input: TC(K J S E)/ RTD Pt100 CU50 universal input, or 4-20mA/0-10V/0-75mV signal from standard pressure/level transmitter,

Control output: RELAY SSR SCR 4-20mA 0-10V (If 4-20mA or 0-10V DC output, you can choose PID control or analog output) Alarm output: 1 line output, 7 kinds of alarm mode: high / low / high deviation / low deviation / interval / out of interval / breakage alarm

PC9—TA7-SNR

This is a bid for a dual display universal digital programmable temperature controller that supports many types of thermocouple sensors. It can be powered by 90- 265V AC/DC or 18-30V AC/DC or 24V DC, Consumption 5VA. Size: 72W*72H*100L mm

3 build-in Auto-Tuning Time proportion PID Algorithms to choose for different applications or environments to be controlled. (for a variety of industries or home projects heating or cooling applications.)

Specifications

Display: Dual display for Fahrenheit(F) and Celsius(C)

Range: -1999 to 9999 (depends on the input signal)

Main Output: SSR: Open circuit: 4V, Closed Circuit: 24V 40mA DC

Auto-tuning PID cooling/heating control

1 RELAY alarm: Normal open, capacity 250V/3A AC or 30V/3A DC

7 different Dual Output combinations with: Accuracy: 0.2%

Input: Thermo Resistor: PT100, Cu50

Thermocouple: J,S,K,E,Wre3 ~ Wre25

Dimension: 72mmX72mmX100mm

Net Weight: about 200g

Individually programmable PID control parameters.

P, I, d, controlling period, digital filter coefficient, and more... (for control theory experts only) SSR control ready to connect external Solid State Relay to handle High current. Applications.

Compact design

72W*72H*100L mm size, great form-factor to be included/build-in into your product.

Apply with step control, 1 independent PID control for heating/cooling over temperature, pressure, level, flow, etc.. Widely used in an auto system in the line of light industry, chemistry, machine, metallurgy, ceramics, petrification industry, or temperature control and adjust system of food & beverage; oven; furnace, plastic extruder heating process, etc; One key operation, Auto-tuning PID/ Fuzzy PID control. Easy operation, Reliable performance Input: TC(K J S E)/ RTD Pt100 CU50 universal input, or 4-

20mA/0-10V/0-75mV signal from standard pressure/level transmitter,

Control output: RELAY SSR SCR 4-20mA 0-10V (If 4-20mA or 0-10V DC output,you can choose PID control or analog output) Alarm output: 1 line output,7 kinds of alarm mode: high / low / high deviation / low deviation/ interval / out of interval /breakage alarm

PC10—TA6-SNR

This is a bid for a dual display universal digital programmable temperature controller that supports many types of thermocouple sensors. It can be powered by 90- 265V AC/DC or 18-30V AC/DC or 24V DC, Consumption5VA. Size:48W*96H*80L mm

3 build-in Auto-Tuning Time proportion PID Algorithms to choose for different applications or environments to be controlled. (for a variety of industries or home projects heating or cooling applications.)

Specifications

Display: Dual display for Fahrenheit(F) and Celsius(C)

Range: -1999 to 9999 (depends on the input signal)

Main Output: SSR: Open circuit: 4V, Closed Circuit: 24V 40mA DC

Auto-tuning PID cooling/heating control

1 RELAY alarm:Normal open, capacity 250V/3A AC or 30V/3A DC

7 different Dual Output combinations with: Accuracy: 0.2%

Input: Thermo Resistor: PT100, Cu50

Thermocouple: J,B,S,K,E,Wre3 ~ Wre25

Dimension: 48WX96HX80Lmm

Net Weight: about 170g

Individually programmable PID control parameters.

P, I, d, controlling period, digital filter coefficient, and more... (for control theory experts only) SSR control ready to connect external Solid State Relay to handle High current. Applications.

Compact design

72W*72H*100L mm size, great form-factor to be included/build-in into your product.

Apply with step control, 1 independent PID control for heating/cooling over temperature,pressure,level,flow,etc..Widely used in an auto system in the line of light industry, chemistry, machine, metallurgy, ceramics, petrification industry, or temperature control and adjust system of food & beverage; oven; furnace, plastic extruder heating process, etc; One key operation, Auto-tuning PID/ Fuzzy PID control. Easy operation, Reliable performance Input: TC(K J S E)/ RTD Pt100 CU50 universal input, or 4-20mA/0-10V/0-75mV signal from standard pressure/level transmitter,

Control output: RELAY SSR SCR 4-20mA 0-10V (If 4-20mA or 0-10V DC output,you can choose PID control or analog output) Alarm output: 1 line output,7 kinds of alarm mode: high / low / high deviation / low deviation/ interval / out of interval /breakage alarm

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