

【Intelligent self-tuning PID regulator】

➤ Product outline

Intelligent self-tuning PID regulator adopts advanced microprocessors for smart control, it is suitable for system required the high accuracy regulation and control, and it can automatically figure out the optimal regulating parameters according to different controlled object.

Input ports have universal signal input function, it can realize light switching between various input signal (thermocouple, thermo-resistance, standard voltage/current signal) only need simple selection on instrument menu. So greatly improves instrument universality and reliability.

Instrument can separate with one loop PID regulating signal output and one loop transmitting signal output. output loops all adopt photoelectric isolation and can with serial communication interface.

Instruments adopt high brightness LED digital display and high resolution light column display (proportion display), display mode have two kinds: double screen digital display, double screen digital + double light column display. The later integrates digital instrument and analogue instrument, for measuring value and regulating and controlled target value (or output quantity) carry out simultaneously relative analog quantity proportion display, makes parameter display more clear and visual.

Instrument have auto/manual, manual/auto non-interference switching function.

➤ Outline dimension and open hole dimension of instrument



Outline dimension: 96×48×115mm

Open hole dimension: $92^{+0.7}_{-0} \times 45^{+0.7}_{-0}$ mm



Outline dimension: 48×96×115mm

Open hole dimension: $45^{+0.7}_{-0} \times 92^{+0.7}_{-0}$ mm



Outline dimension: 72×72×115mm

Open hole dimension: $68^{+0.7}_{-0} \times 68^{+0.7}_{-0}$ mm



Outline dimension: 160×80×140mm

Open hole dimension: $152^{+0.7}_{-0} \times 76^{+0.7}_{-0}$ mm



Outline dimension: 80×160×140mm

Open hole dimension: $76^{+0.7}_{-0} \times 152^{+0.7}_{-0}$ mm



Outline dimension: 96×96×115mm

Open hole dimension: $92^{+0.7}_{-0} \times 92^{+0.7}_{-0}$ mm

➤ **Type spectrum table for intelligent self-tuning PID regulator**

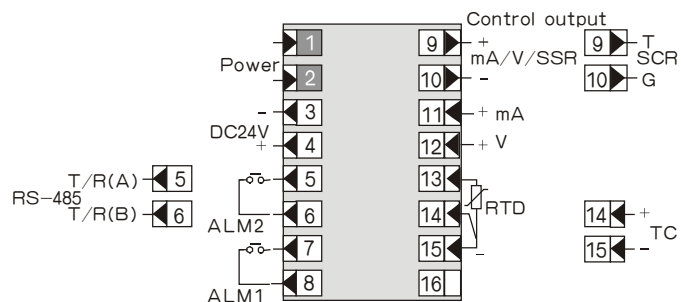
WP-		Model											Explanation	
		□□	□	□□	-□	□	□	-□□	□□	-□	□	□□	□	
Outline feature	D													Double screen digital horizontal display
	S													Double screen digital vertical display
	TX													Double screen double light column horizontal type display
	T													Double screen double light column vertical type display
Outline dimension		4												96×48 mm horizontal type, 48×96 mm vertical type,
		7												72×72 mm
		8												160×80 mm horizontal type 80×160 mm vertical type,
		9												96×96 mm
Control action		05												Measurement display
Communication mode		0												No communication interface
		2												RS-232C communication interface
		8												RS-485 communication interface
control output		0												No output
		1												Relay control output
		2												(4~20)mA output
		3												(0~10)mA output
		4												(1~5)V output
		5												(0~5)V output
		6												SCR zero-crossing triggering pulse output
		7												SSR control output
		8												Special specification transmit output
Transmitting output		0												No transmit output
		2												(4~20)mA output
		3												(0~10)mA output
		4												(1~5)V output
		5												(0~5)V output
		8												Special specification transmitting output
Input type								□□						See "input type table"
First alarm										N				No alarm
										H				First alarm is high limit alarm
										L				First alarm is low limit alarm
Second alarm											□			Same as first alarm mode
Feed output												P		DC 24V output (no feed output can be omitted)
Supply mode														AC220 V linear power (may be omitted)
												T		AC (90~265)V switch power supply
												W		DC 24V supply

★ Note: Display mode is PV measuring value + SV control target value display, with manual/auto, auto/manual non-interference switching function

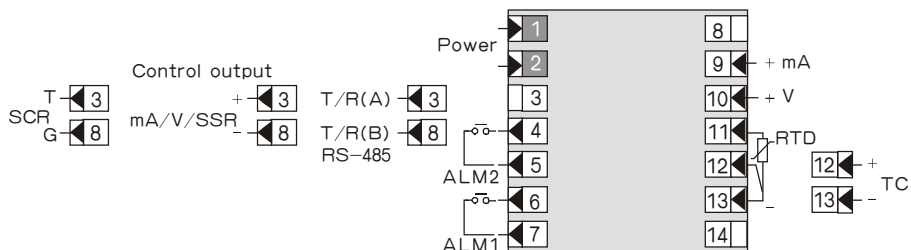
Option as an example: WP-TX805-822-12-HL-P-T

➤ **Wiring diagram**

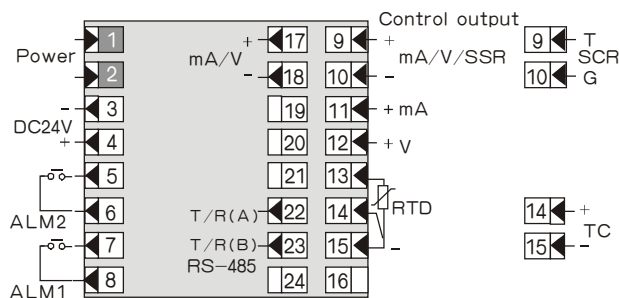
>> **Instrument wiring diagram for 96×48, 48×96**



>> **Wiring diagram for 72×72**



>> **Instrument wiring diagram for 96×96**



>> **Instrument wiring diagram for 160×80, 80×160**

