Functions and characteristics

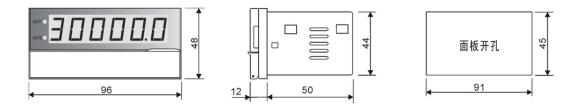


- Basic functions: add-count, subtract-count, add-subtract-count
- Various sensors can be connected: photoelectric coupler, proximity switch, linear displacement grating sensor, encoder, etc
- ●Six-bit LED display: 1999-9999, decimal point position arbitrary settings;
- Five input modes and twelve output modes;
- With power failure memory function, memory/memory can be set.

2 | Main technical specifications

Display	Red high brightness digital tube (word	Sensor	12VDC ±5% ,60mA
mode	height 14.2mm)	Power	
Range	-199999 \sim 999999, Decimal point position can be set		Output mode: N. F. C. R. K1, P. Q. A.
Limit	HHHHHH, LLLLLL		K2、D、 L、H
display		Relay	Delay range: 0.01 \sim 99.99s Or keep output
Input	UP、DOWN、UP/DOWN A B C,	output	contact rating: 2A/250VAC/30VDC(Resistive load)
Counting	A total of three levels of settings: 30Hz/1kHz/30kHz, on-off ratio 1:1		Switch delay: ≤10ms
speed	The maximum speed of UP/DOWN-C mode is 15 kHz		
Input	IN-1, IN-2, RST	Power	85-264VAC 50/60Hz consumption ≤4W
signal	High level 4-30V, low level 0-1V	rower	85-204VAC 50/00nZ consumption 4w
Power	EEPROM, 100,000 erases	Use	Temperature 0-50 C, relative humidity
failure		environmen	less than 85% RH
memory		t	

3 | Shape size and panel opening size



4 Panel and key operation

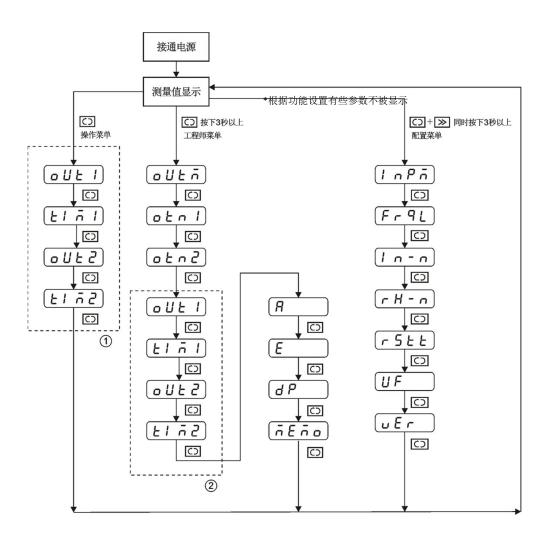


◯ : data → switch : increase and reset

Functional parameters are distributed in operation menu, engineer menu and configuration menu. The entry method of each menu is described in the following figure.

After entering the menu, press Select the parameters that need to be modified, press Enter the Modified State, press and Changing parameter values, press The changed parameter values are stored in memory and the parameter symbols are redisplayed

When setting parameters, the button is not pressed within 10 seconds, and will automatically return to the measurement display state. The parameter values being modified will not be saved

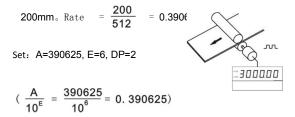


12The position of output parameters is determined by the value of UF parameters.

Code	Name	Set range	Default	Explain
OUT1	Set 1	-199999 ~999999	1000	When the current value reaches the set value of 1, output according to the corresponding output mode OUT1 signal
EIĀI TIM1	OUT1 Delay Time	0.00 ~ 99.99s	0.00s	Output duration of OUT1 set to 0
o U Ł ∂ OUT2	Set 2	-199999 ~999999	2000	When the current value reaches the set value of 2, OUT2 outputs the signal according to the corresponding output mode.
EIĀZ TIM2	OUT2 Delay Time	0.01 ~ 99.99s	0.50s	OUT2 Output duration
o U Ł ō OUTM	Output mode	N. F. C. R. K1. P. Q. A. K2. D. L. H	F	See "8. Output mode"
O È n i OTN1	OUT10utput Logic Reverse	OFF、ON	OFF	OFF: Output Conduction when Count Value reaches Set Value
o Ł n Z OTN2	OUT2Output Logic Reverse	OFF、ON	OFF	ON: Output disconnection when count value reaches set value
A A	Rate A	1 ~ 999999	1	Rate = A × 10 ^{-E} =
E	Rate E	0 ~ 9	0	Display = pulses NO. ★RATE ①
d P DP	Decimal point position	0 0.0 0.00 0.000 0.0000	0	Decimal Point Position of Counting Value and Decimal Point Position of Related Parameters

Code	Name	Set range	Default	Explain
л Е л о МЕМО	failure memory	OFF、ON	ON	OFF: No Memory of Blackout ON: Memorize counting values and output status before power outage
I n P n	Input mode	UP、 DOWN、 UD-A、UD-B、 UD-C	UD-B	UD-A: UP/DOWN A UD-B: UP/DOWN B UD-C: UP/DOWN C See "7. Input mode and count value"
Fr9L FRQL	Counting speed	LO、MD、HI	LO	Frequency range allowed by counter When no voltage contacts are input, LO should be set. ②
! a - a	Input IN-1、IN-2 Logical reverse	OFF、ON	ON	OFF: Rising edge counting or high level validity ON: Descent edge counting or low level validity
r H - n RH-N	Input RST Logical reverse	OFF、ON	ON	When there is no voltage contact input, it should be set to ON.
r 5 E E RSTT	Input RST width	1ms 、 20ms	20ms	Minimum width of external reset signal
U F UF	Output parameter position	0 ~ 2	0	O: data OUT1、TIM1、OUT2、TIM2 Place it in the action menu 1: data OUT1、OUT2 Place it in the action menu TIM1、TIM2 Place it in the action menu 2:data OUT1、TIM1、OUT2、TIM Place it in the action menu
u E r VER	Software version	-	-	Display Instrument Software Version, Can't be Modified

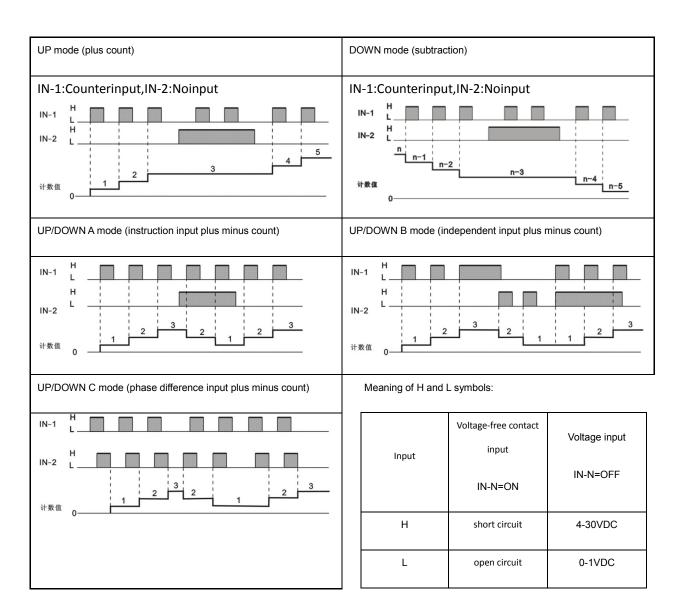
① ex: use 512P/R code, Perimeter ② FRQL



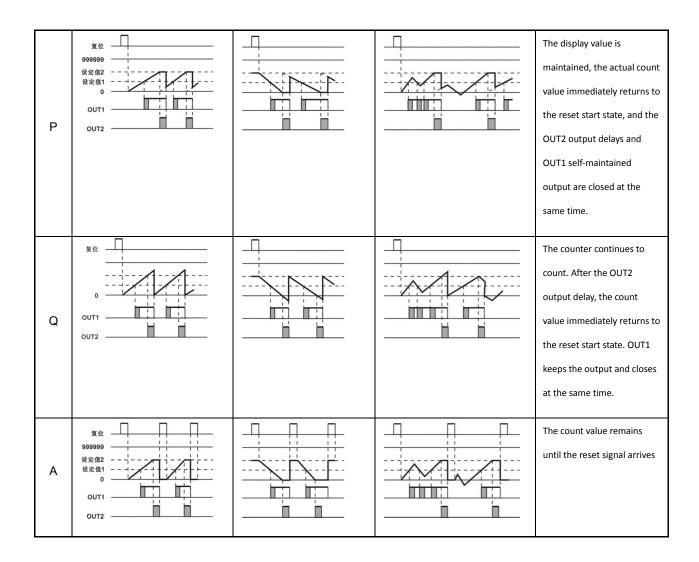
参数值	输入频率范围	导通/断开脉冲宽度
HI	0~30kHz(15kHz)	最小16μs
MD	0∼1kHz	最小480μs
LO	0∼30Hz	最小16ms

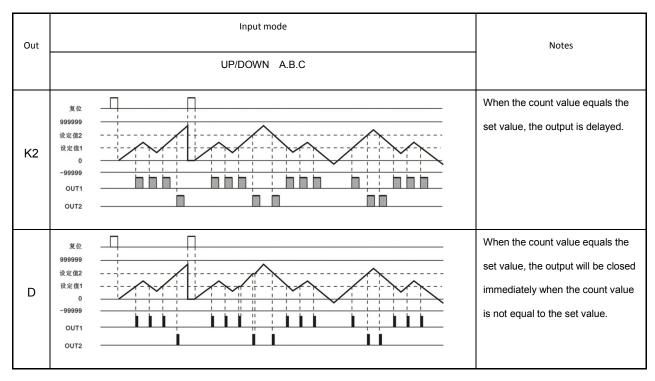
When the input mode is UP/DOWN C, the input frequency of HI ranges from 0 kHz to 15 kHz.

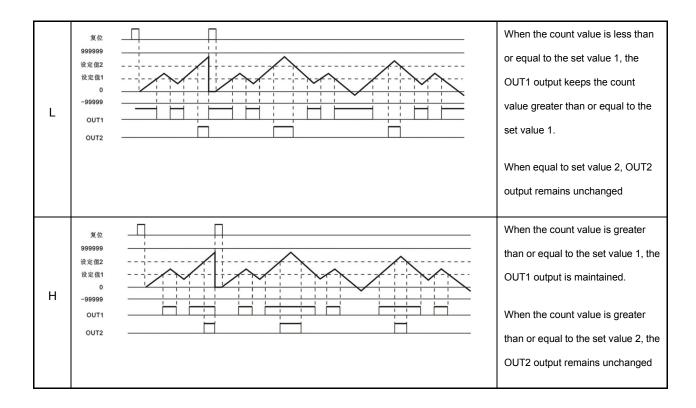
In other input modes, HI input frequency ranges from $0\ \text{to}\ 30\ \text{kHz}.$



Output mode Fixed time/hold output optional Maintain output $\ \square$ Fixed-time output **Equal output** Input mode the count value Out reaches the set value 2 UP DOWN UP/DOWN A.B.C The count remains until 999999 the reset signal arrives 设定值2 Ν 设定值1 OUT1 OUT2 The counter continues to 复位 count until the reset signal F 设定值1 arrives. OUT1 OUT2 Counting values 复位 immediately return to reset 设定值2 start state, OUT2 output С OUT1 delay Close OUT2 simultaneously with OUT1 self-retaining output The counting value is 复位 maintained during the 设定值2 设定值1 OUT2 output time, and OUT1 then returns to the reset R OUT2 start state. The OUT2 output and OUT1 self-retaining output are closed at the same time The counter continues to 复位 999999 count, the output delay of 设定值2 设定值1 OUT2 and OUT1 are closed K1 OUT1 at the same time, and the OUT2 count is restarted after the reset signal arrives.

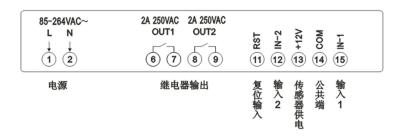






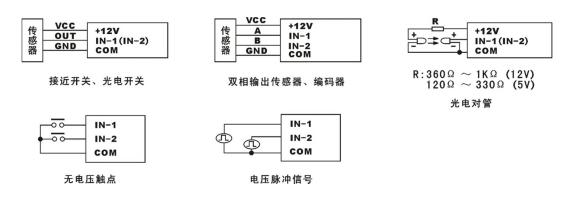
8 Wiring instructions

The arrangement of instrument terminals is shown as follows:



 * The instrument is equipped with NPN sensor. If you need to use PNP sensor, please contact the company for customization.

The connection mode of reset input RST is the same as ${\rm IN}\text{--}1$ (${\rm IN}\text{--}2$).



In-1, IN-2 and RST input terminals are internally connected with pull-up resistors, so when the terminals are not connected (suspended), the input is in a high level state.