

Batch Counter

User Manual

CP Series

www.yotochn.net

CP8 48X96



CP7 72X72



Ordering Code

CP ☐ P S 6 2 ☐ Blank: No communication 4: RS485

2: With 2 alarm HI, LO output

6: 6 digit LED display (upper line 6 digit show length, 4 digit show batch counting)

S: Coefficient setting

P: Preset function

Dimension(mm): 7:72H X 72W X 90L 8: 48H X 96W X 90L 16: 80H X 160W X 90L

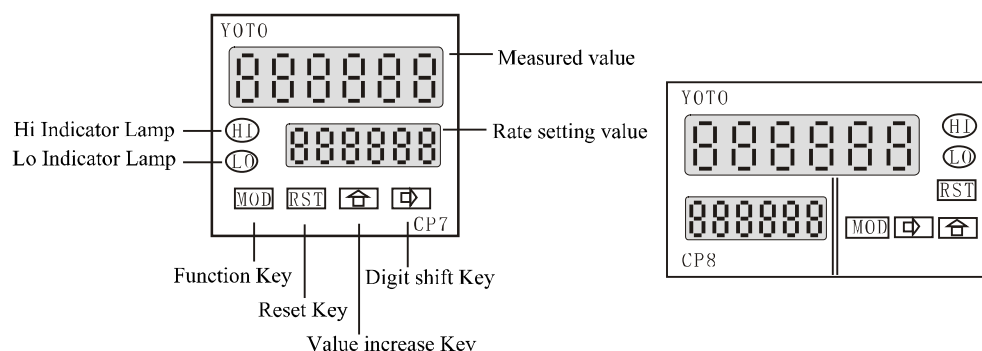
CP Series intelligent digital length meter/ batch counter

Example: CP8-PS62B: means in size: 48H*96W, 2 alarm HI, LO output; with no communication function.

Technical Data

Power Supply	AC90~250V±10V 50/60HZ
Energy Consumption	< 5W
Relay capacity	250V AC/ 3A or 30V DC/ 5A
Auxiliary Power	DC12V/ 80mA(max)
Insulation resistance	≥100MΩ
Dielectric strength	2KV/ 0.5mA per minute
Anti-interference	± 2KV power supply; ± 400V input
Anti-vibration	10~55Hz; 0.75mm
Ambient environment	Temperature: 0 ~ 50℃ (no freeze) , Humidity: 35 ~ 85%RH
Input signal	Square wave, sine wave, input signal: 0≤L≤2V, 5V≤H≤30V
Input impedance	>10KΩ
Counter speed	30CPS/ 5000CPS
Coefficient setting	0.0001~99.9999
Output delay time	0.01 second ~ 99.99 second delay output
Counter range	0~999999

Panel Illustration



Operation Process

A: MOD: Setting/ Confirm Key. When upper line display zero, it is in normal measuring status.

⬆: Value increase Key

⬇: Digit shift Key RST: Reset Key

B: Parameter setting:

Measuring status

↓ Press ⬇ key for 1 second.

SVC

Press ⬆ key & ⬇ key to modify SVC preset value. Press RST key to modify decimal point.

↓ Press MOD

SVC

Press ⬆ key & ⬇ key to modify SVT preset value.

↓ Press MOD

Measuring status

Measuring status

↓ Press ⬇ key for 5s.

P

Press ⬆ key & ⬇ key to modify proportion.

↓ Press MOD

OUT

Press ⬆ key to select HI alarm output mode: n, r, L

↓ Press MOD

tin

Press ⬆ key & ⬇ key to modify HI alarm delay output time

↓ Press MOD

nod

Press ⬆ key to set LO alarm relay output function

↓ Press MOD

Pt

Press ⬆ key to select batch counting (upper line)

↓ Press MOD

Measuring status

Note:

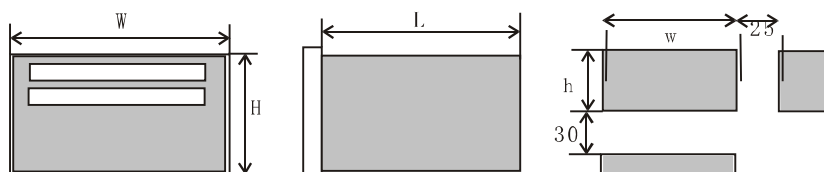
1. When PT is set to T, upper line display measured value;

When PT is set to P, upper line display batch counting value, if lower line preset SVC=100, then lower line reset to zero when counting to 100, upper line will increase 1 value.

2. When AOD is set to 0, SVT (LO alarm relay) is for upper line (batch counting) preset value.

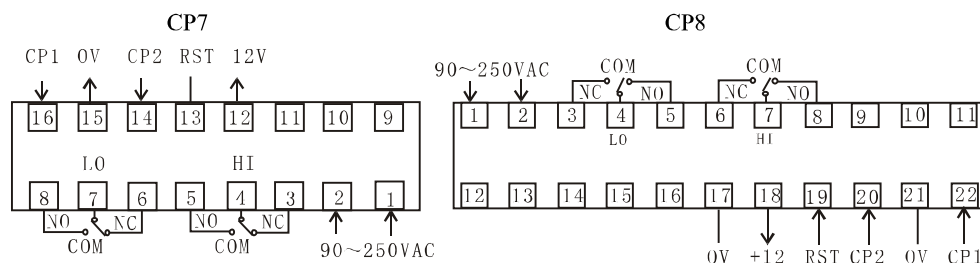
When AOD is set to 1, SVT (LO alarm relay) is for lower line (measured value) low preset value, that is, two output, upper line without alarm function.

Dimension Size



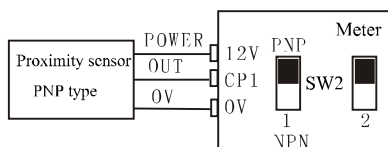
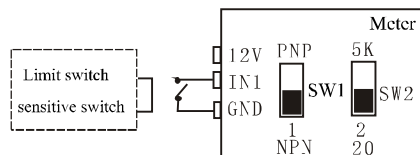
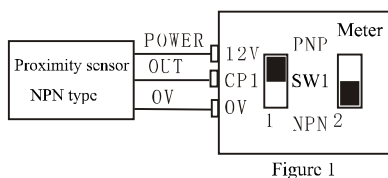
Model	Panel size (H X W)	Shell size (H X W X L)	Hole size (a X b)
CP7	72×72	68×68×80	90×90
CP8	48×96	45×91×80	90×126

Terminal Connection



Note: Please subject to the connection drawing on the product if any changes.

Connection Example



Note: Please select SW1/ SW2 switches according to above figures which is also stuck on the bottom of the instrument.

Output Mode Logic Relation Chart

			Delay output	Hold output	
N		R		C	
Display value and HI output will be kept to the reset input.		Display value and HI will return to the initial status automatically after keep to the delay setting time.		Display value will return to the start status automatically, HI output delay will return to the initial status after reached the setting time.	

Application Example

Example: The Manual ropes making machinery will request to cut into one piece in the length of every 6 meters, every 100 pieces are packed to one bundle, then the machinery stops. Usage is as follows:

First, installs the rotary encoder on the rope output roller of rope making mechine, the length counter and our CP series batch counter will output rope length signals, (or use other way to output length signals), use parameter setting method to get the length value; to get the length value, suppose P (parameter) is X;

Secondly, set the parameter for CP batch counter: The P value is X, OUT is C, TIR is 3 seconds, AOD is O, PT is P, SVC is 6.00000, SVT is 100.0;

The wiring diagram is as follows:

