

IBEST

CRN Series of Counter/Length/Batch Meter Instruction Manual

Thanks a lot for selecting **IBEST** products! Before operating this instrument, please carefully read this manual and fully understand its contents. If have problems, please contact our sales or distributors whom you buy from. This manual is subject to change without prior notice.

Warning

Please do not turn on the power supply until all of the wiring is completed. Otherwise electrical shock, fire or malfunction may result.
Do not wire when the power is on. Do not connect the unused terminals. 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.

Caution

This instrument should be installed to avoid the strong noise sources. If the signal cable is too long, we suggest you to use shielded cables. Please don't install the signal cable with the power supply.

To avoid using this instrument in environment of strong shock or concussion.

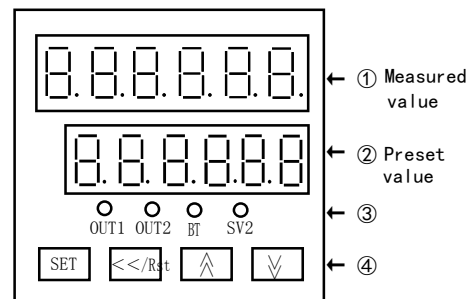
To avoid using this instrument in environment of overflow water or explosive oil.

Keep the instrument in the environment -10°C to 70°C, avoid sunlight for long time.

Features

1. The instrument can be used as counter, length-meter also
2. 4, 6 digit LED display
3. Preset value is available
4. 4 kinds of input mode and 6 kinds of output mode for option
5. Input and output is optical isolated
6. Power fail protection for at least 10 years
7. Widely applied in chemical, machine, light industrial etc.

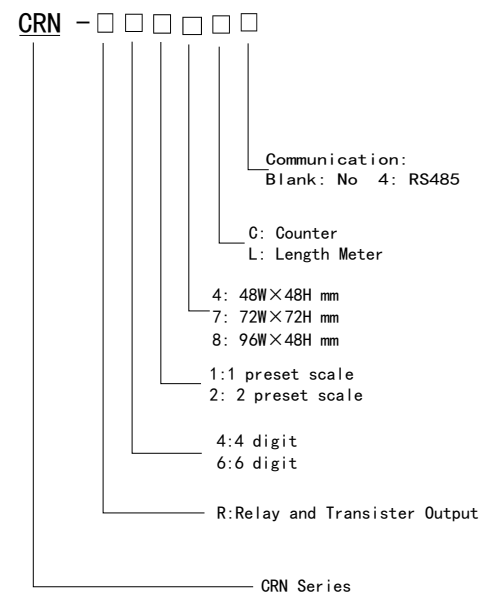
Panel



- ③ Indication lamps:
OUT1/OUT2: Output indication lamp
BT: Batch display lamp
SV2: The second preset value lamp

- ④ Keys:
SET: Select/Confirm key
<< /Rst: Shift/Reset key
⬆: Up key
⬇: Down key

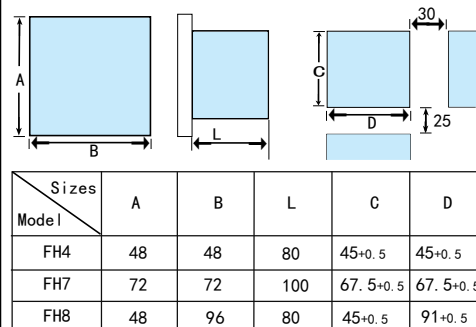
Ordering code



Specifications

Input signals	Pulse signal: square wave and sine wave : $5 \leq H \leq 30V$ $0 \leq L \leq 2V$ up edge active
Input impedance	$\geq 10K\Omega$
Counting speed	30/5000CPS
Counting range:	(According to the display digit) -199999~999999
Preset range	(According to the display digit) 0.00001~999999
Auxiliary power	24V/12VDC $\pm 10\%$ 40mA max
Output type	Relay contact output
Contact relay capacity	250V AC/3A or 30V DC/5A
Operation environment	0~50°C 35~85%RH
Parameter saving time	10 years
Insulation resistance	$\geq 10M\Omega$ Consumption: <5W
Contact edge	Up edge Active
Power supply	DC 24V $\pm 15\%$ or 80~265V AC/DC

Mounting

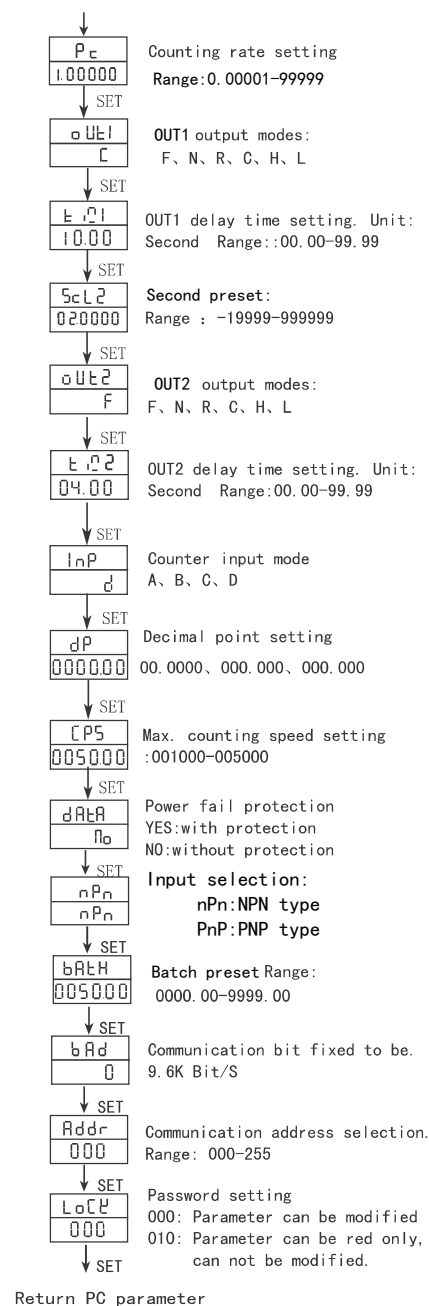


Operation process

- ★ Counting preset value setting: In displaying estate, press <</RST key to shift, press ⬆ ⬇

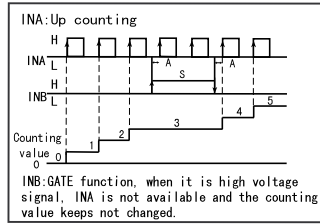
key to view the parameters one by one.

Press SET key for more than 3 seconds can enter/quit the parameter setting

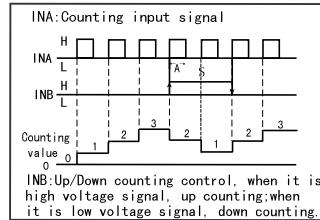


Input mode

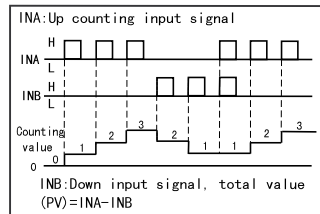
A mode



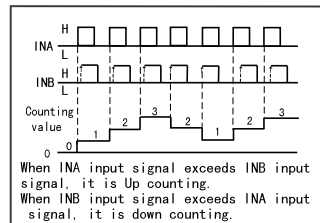
B mode



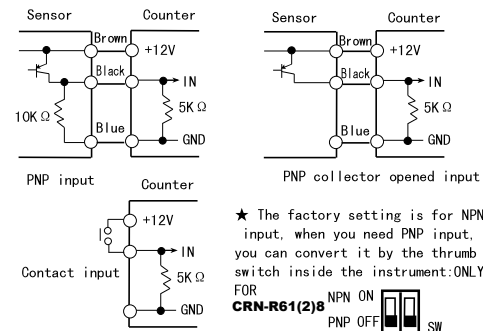
C mode



D mode

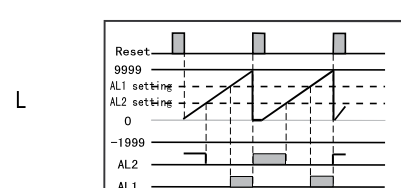
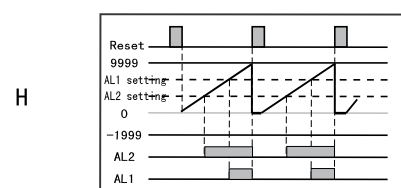
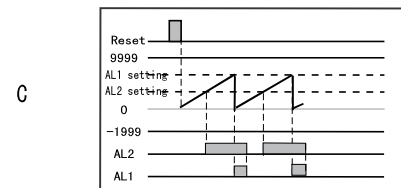
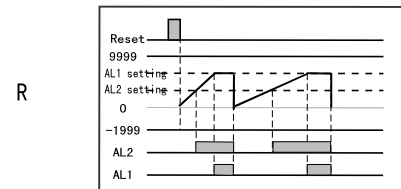
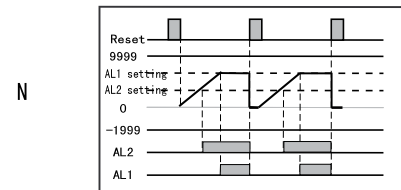
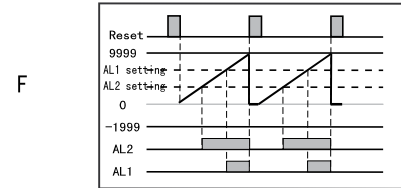


Input configuration

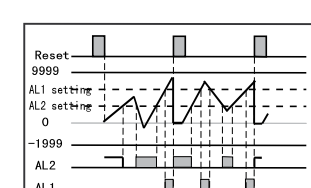
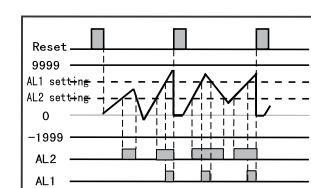
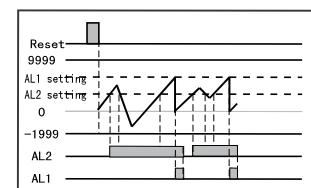
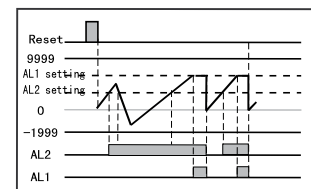
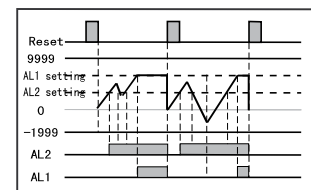
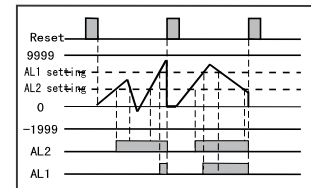


output control mode

input mode A



input mode B C and D



Counting value keep up/down, output remained till to reset input

$\square U_{E1} = F$
 $\square U_{E2} = F$
 $AL1 > AL2$

Counting value keep to AL1 output, output remained till to reset input

$\square U_{E1} = N$
 $\square U_{E2} = F$
 $AL1 > AL2$

Counting value keep to AL1 delay output, and then return to start estate

$\square U_{E1} = R$
 $\square U_{E2} = F$
 $AL1 > AL2$

Counting value keep to AL1, it will return to start estate

AL1 setting Output keep till to delay time and then return to start estate

$\square U_{E1} = C$
 $\square U_{E2} = F$
 $AL1 > AL2$

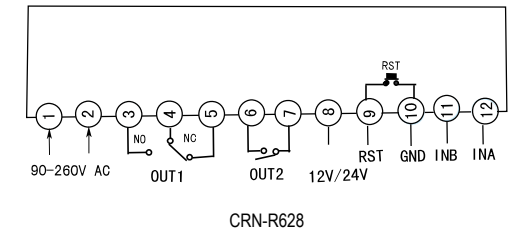
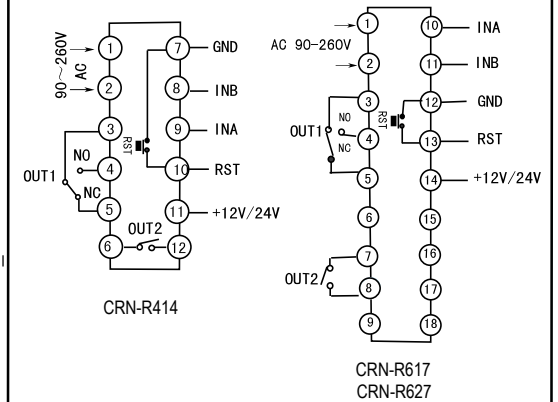
Counting value keep till reset input.

$\square U_{E1} = F$
 $\square U_{E2} = H$
 $AL1 > AL2$

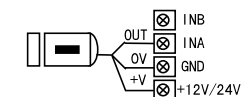
Counting value keep till reset input

$\square U_{E1} = F$
 $\square U_{E2} = L$
 $AL1 > AL2$

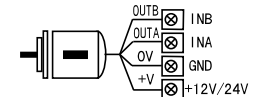
Terminal connections



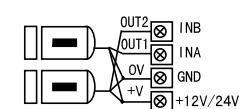
Single sensor input connection



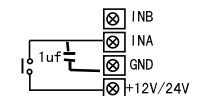
Encoder connection



Double sensor input connection



Contact connection



If any connection changes, please refer to the table showing on the meter.

IBEST ELECTRICAL CO.,LTD

TEL:+86 760 85541652 FAX:+86 760 85549680

Http://www.ibestchina.com

Email: sales@ibestchina.com