MYPIN

FH Series of Counter/Length/Batch Meter Instruction Manual

Thanks a lot for selecting MYPIN 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.

Avoid using this instrument in environment of strong shock or concussion.

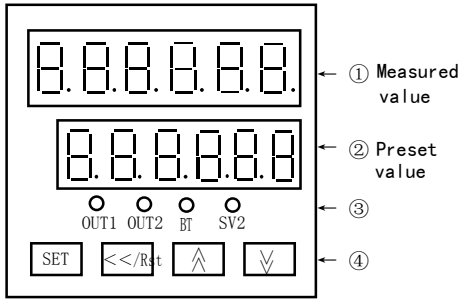
Avoid using this instrument in environment of overflow water or explosive oil.

Keep the instrument in the environment -10C to 70C, 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 ofinput 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 industry 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

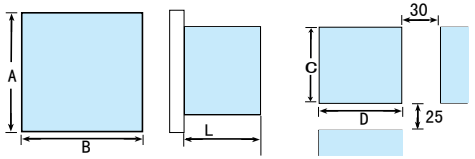
FH□□-□□ □□ □□ □ — Input : default:2 ,D:other

- Auxiliary power: A: 12V DC B: 24V DC
- Communication: Default: None 2: RS232 4: RS485
- AL2 N: None R:RELAY S: SSR/LOGIC T: SCR
- AL1 N: None R: RELAY S: SSR/LOGIC T: SCR
- Function selection: L:Frequency/Line-Speed/Tachometer C: Counter/Length
- Display: 4: 4 digit 6: 6 digit
- Power Supply: Default: AC 80-265V E: 24V DC
- Size: 4: 48H×48W 7: 72H×72W 8: 48H×96W
- FH Series of Counter/ Length/Batch Meter

Specifications

Input signals	Pulse signal: square wave and sine wave : 5≤H≤30V 0≤L≤2V up edge active
Input impedance	≥10KΩ
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 ±10% 40mA max
Output type	Relay contact output
Contact relay capacity	250V AC/3A or 30V DC/5A
Operation environment	0～50℃ 35～85%RH
Parameter saving time	10 years
Insulation resistance	≥10MΩ Consumption:＜5W
Contact edge	Up edge Active
Power supply	DC 24V ±15% or 80-265V AC/DC

Mounting



Model \ Sizes	A	B	L	C	D
FH4	48	48	80	45+0.5	45+0.5
FH7	72	72	100	67.5+0.5	67.5+0.5
FH8	48	96	80	45+0.5	91+0.5

Operation process

★ Counting preset value setting: In displaying estate, press <</RST key to shift, press ⩔ ⩓ key to modify the value, and then press SET key to confirm BT /SV2 converting display, press SET key to view the parameters one by one.

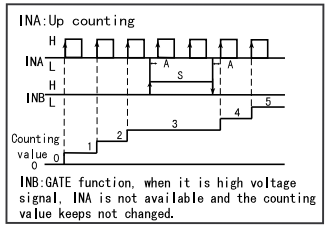
Press SET key for more than 3 seconds can enter/quit the parameter setting

PE / 1.00000	Counting rate setting Range:0.00001-99999
SET	
oUt1 / C	OUT1 output modes: F、N、R、C、H、L
SET	
t.C1 / 10.00	OUT1 delay time setting. Unit: Second Range::00.00-99.99
SET	
ScL2 / 020000	Second preset: Range : -19999-999999
SET	
oUt2 / F	OUT2 output modes: F、N、R、C、H、L
SET	
t.C2 / 04.00	OUT2 delay time setting. Unit: Second Range:00.00-99.99
SET	
InP / d	Counter input mode A、B、C、D
SET	
dP / 000.000	Decimal point setting 00.0000、000.000、000.000
SET	
CPS / 005000	Max. counting speed setting :001000-005000
SET	
dAtA / No	Power fail protection YES:with protection NO:without protection
SET	
S.G / No	Reserved NPN, PNP input display
SET	
bAtH / 005000	Batch preset Range: 0000.00-9999.00
SET	
bAd / 0	Communication bit fixed to be. 9.6K Bit/S
SET	
Addr / 000	Communication address selection. Range: 000-255
SET	
LoCK / 000	Password setting 000: Parameter can be modified 010: Parameter can be red only, can not be modified.
SET	

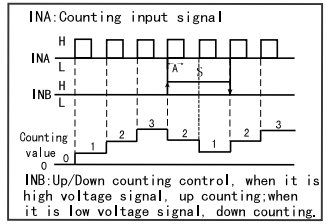
Return PC parameter

Input mode

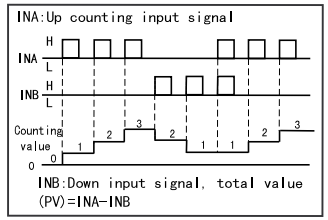
A mode



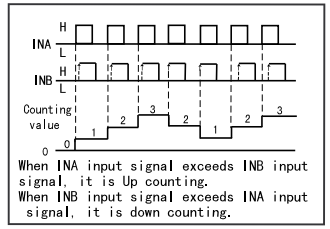
B mode



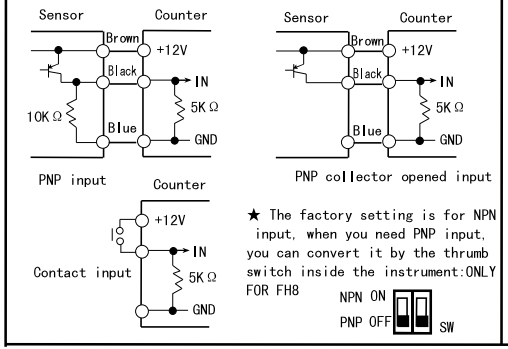
C mode



D mode



Input configuration

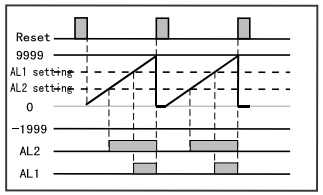


★ The factory setting is for NPN input, when you need PNP input, you can convert it by the thrumb switch inside the instrument:ONLY FOR FH8

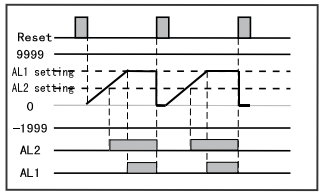
output control mode

input mode A

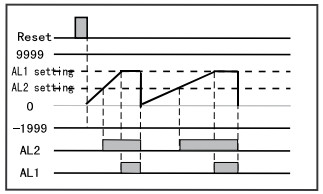
F



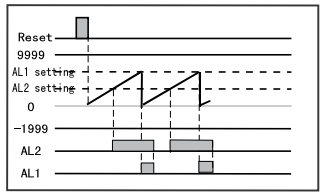
N



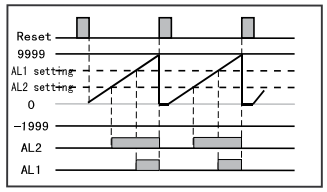
R



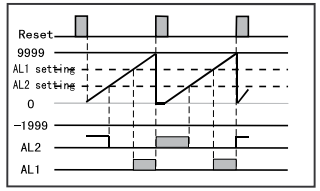
C



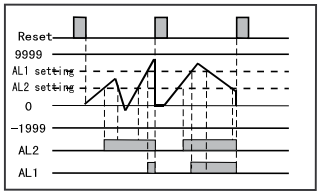
H



L

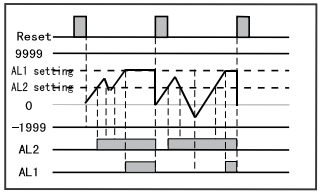


input mode B C and D



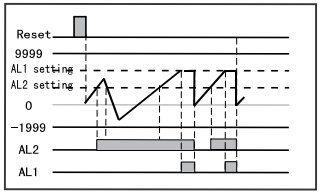
Counting value keep up/down, output remained till to reset input

oUt1 = F
oUt2 = F
AL1＞AL2



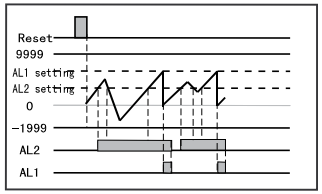
Counting value keep to AL1 output, output remained till to reset input

oUt1 = N
oUt2 = F
AL1＞AL2



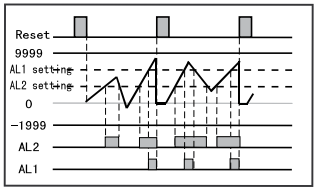
Counting value keep to AL1 delay output, and then return to start estate

oUt1 = R
oUt2 = F
AL1＞AL2



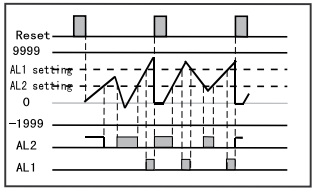
Counting value keep to AL1, it will return to start estate, AL1 setting Output keep till to delay time and then return to start estate

oUt1 = C
oUt2 = F
AL1＞AL2



Counting value keep till reset input,

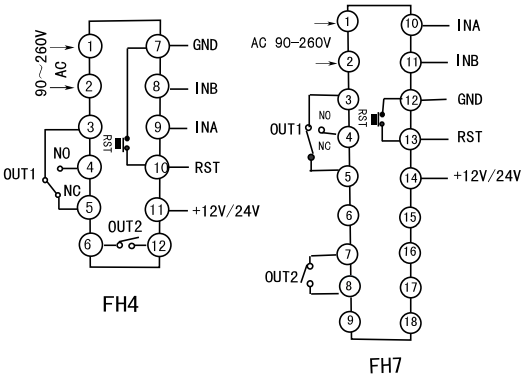
oUt1 = F
oUt2 = H
AL1＞AL2

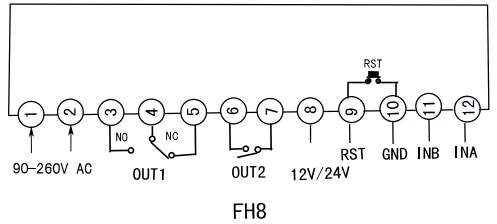


Counting value keep till reset input

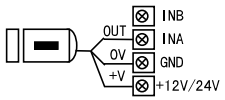
oUt1 = F
oUt2 = L
AL1＞AL2

Terminal connections

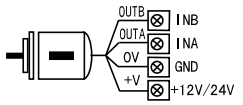




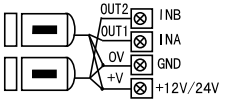
Single sensor input connection



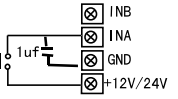
Encoder connection



Double sensor input connection



Contact connection



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