

MYPIN

FC Series multi-function counter/length Batch Meter manual

Thanks for select MYPIN products!
Pls carefully read this manual and fully understand its contents before operating this meter.

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.

Do not wire when the power is on.

Do not disassemble, repair or change the instrument.
Use this instrument within the scope of its specifications.

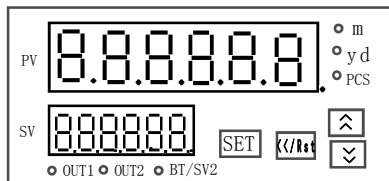
*Should be installed in a domestic environment.

* To avoid using this instrument in environment full of dust / caustic gas / strong vibration/ overflow water or explosive oil.

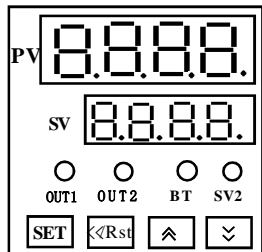
Application

- 1 Can be used as packing counter , Batch meter ,total / current counter , count and line-speed, position / angle control,multi-channel counter meter wheel length meter
- 2 input: contact/proximity photoelectric switches /encoder,metee wheel sine wave / Square wave / triangle wave etc voltage pulses
- 3 display : 4 / 6 digital LED duple row ,range 0.0001-999999
- 4 Multi-preset and output control are available, Relay or SSR output etc.
- 5 power-down data saving for at least 10 years (EEPROM). .
- 6 communication interface: RS485 RS232(MODBUS-RTU) RJ45 .

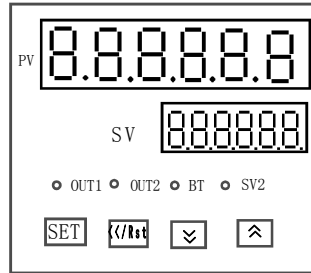
Panel



FC8 6 digit counter/length



FC4 4 digit counter/length



FC7 6 digit counter /length

- ① PV window display :count data / parameter code
 - ② SV window display : preset value / parameter value
- * SET Select or Confirm key
 - * <</RST shift key / Reset key
 - * ADD / UP Key
 - * SUB / Down Key
 - * OUT1 OUT2 output LED, ON : active OFF :inactive
 - * BT batch data LED, ON : batch data OFF: no batch data
 - * SV2 preset point 2 LED ON: preset 2th OFF: no preset 2th

Specifications

Power	90-260V AC 50/60Hz or 18-30V AC/DC, cmsg ≤5VA
input	sine, square, triangle wave pulse etc. 5V ≤ H ≤ 30V, 0 ≤ L ≤ 2V, up edge trigger Input impedance ≥ 20K Ω
speed	switch/pulse ≤ 50000PS, encoder ≤ 20000PS
range	4 digit 0-9999 6 digit 0-999999 8 digit 0-99999999
output	Relay: normal open 250VAC 3A/30VDC 3A resistive load SSR: DC 12V/24V 30mA, Triode: 60V/30mA
AUX.Power	DC 24V or /12V Max 40mA
comm	RS232, RS485 RJ45, MODBUS RTU protocol
Enviroment	temperature: 0-50°C humidity: 30-85%RH
Weight	< 350g

Dimension and mounting

- | | |
|----------|--------------------|
| 1 FC4 | W 48 * H48 * L80mm |
| mounting | W45* H45mm |
| 2 FC7 | W72* H72* L80mm |
| mounting | W68* H68mm |
| 3 FC8 | W96* H48* L80mm |
| mounting | W92* H92mm |
| 4 FC10 | W160*H80* L70mm |
| mounting | W152*H76mm |

ordering code

		Model						Functions	
FC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Size	4								48W*48H*80L
	6								48W*96H*80L
	7								72H*72W*80L
	8								96W*48W*80L
	9								96W*96H*80L
	10								160W*80H*70L
power									90-260V AC/DC
	E								18-30V OR 24VDC
display	4								4 Dital LED
	6								6 Dital LED
function mode	L								Length/meter wheel
	C								Packing count
	T								total /current count
	B								Batch count
	X								count and line -speed
	P								position and angle
preset output	OUT1	N							none
		R							R: relay F:buzz
		S							triode/SSR
	OUT2	N							none
		R							R: Relay F:buzz
		S							triode/SSR
communication									none
	2								RS232
	4								RS485
	5								LAN RJ45
AUX. power									none
	A								12V/30mA
	B								24V/30mA
	D								other, E. g 5V/30mA
Extensions									none
	K								Meter wheel LK80
	S								switches
	R								encoder
	W								number of channels
universal input: contact\switches\pulse\encoder\meter wheel 90° phase difference, other input when ordering									

E. g: Model FC8-6LRNB-LK80 6 dital LED length meter,
size width 96*height48*length80mm, power supply 90-260V
OUT1:relay, OUT2:none, comm:none, Meter wheel:LK80, ± 1cm
Model:FC8E-6XRR4A-R100 6 digital count /Line-speed meter
size width 96*height48*length80mm,Power supply:24V
OUT1:relay OUT2:relay, communication:RS85,
input:encoder 100 pulse / Rpm , DC12V

Operation/parameter setting

1 parameter setting steps

in setting menu,press RST key,LED flashing,press RST again to shift LED,press UP / Down key to modify data,press SET key to confirm if OK, then LED Stop to flash

Modifying point:when LED falsdning keeping hold SET key,and press UP key once, the decimal point will change once , then loose keys in required position

2 preset point setting

Enter the setting menu or in dispalystate, Pres RST key,LED flashing, then refer parameter setting steps to modify data

3 Preset point 1 and preset point 2 converting,

(no B / T / X function code)
press SET key to convert SV window display SV2/BT LED:OFF display preset point 1, SV2/BT LED ON: display preset point 2

4 Batch counter dispaly convert Reqiued out1=R or C control output

press SET key to convert SV window display SV2/BT LED:OFF display preset point 1, SV2/BT LED ON: display batch data

5 Total count / current count convert

PV LED display total count
Saving total data only when power down
press SET key to convert SV window display SV2/BT LED:OFF display preset point 1, SV2/BT LED ON: current count data
Reset : RST key: reset toatl data,
terminal RST:reset current data

6 Count and line-speed meter display

PV LED display total count
press SET key to convert SV window display SV2/BT LED:OFF display preset point 1, SV2/BT LED ON: display Line-speed or tacho

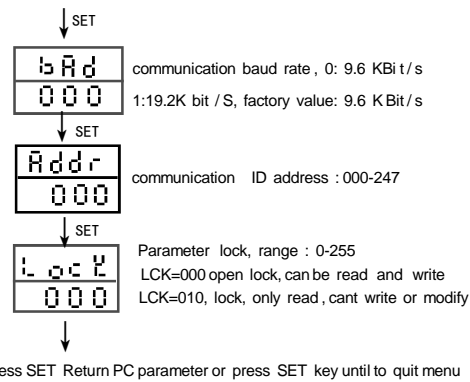
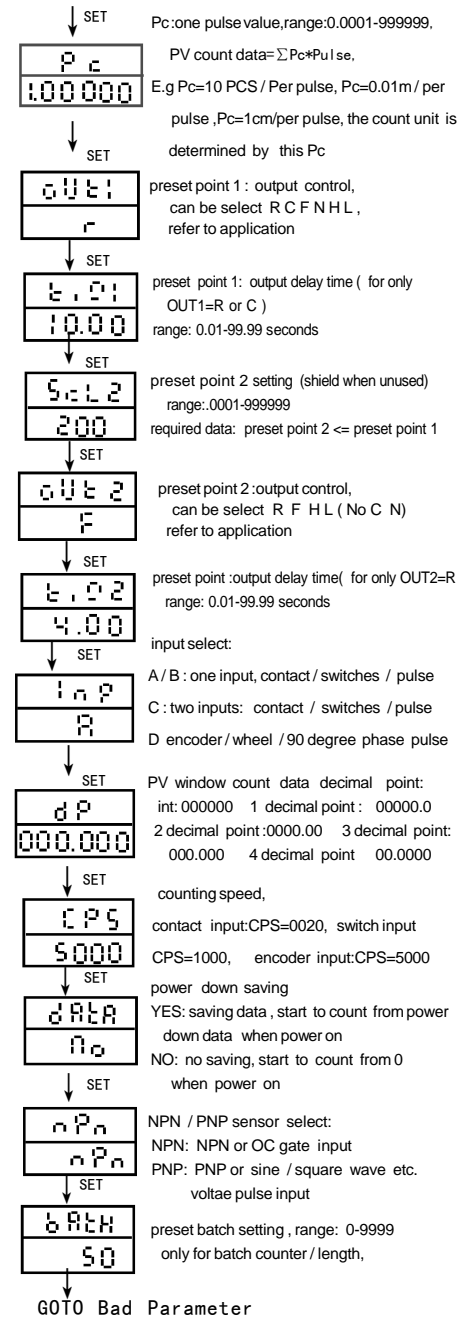
7 Position or angle meter

press UP key more than 5 seconds until SV LED flashing,then loose key, refer parameter setting steps to modify data.the meter will start to count from this data

8 RESET Opration

Press RST key more than 2 seconds until PV LED display 0,then loose, or press terminal RST once to reset

Press SET key until to enter manu,then loose key,refer parameters setting steps to modify data



input application

contact input: should be connected capacitor to prevent contact jitter, capacity: 0.1-10uF, suggest capacitor : 4.7uF

1 A input application(Contact ,switch,encoder,voltage pulse)

INA :increase count ,connect between INA and GND (com)

INB : allow or forbid count, INA increase count when INB open or Low Level(<1V), INA forbid or dont count when INB connect High level (H > 5V)

2 B input application:(Contact ,switch,encoder, voltage pulse)

INA: increase or decrease count, connect between INA and GND(com)

INB: used to control INA, INA increase count when INB OPEN or low Level (<1V), INA decrease count when INB connect High level (>5V)

3 C input application (Contact ,switch,encoder,voltage pulse), PV data=INA-INB

INA :increase count,connect between INA and GND(com)

INB: decrease count,connect between INB and GND(com)

4 D input: encoder or 90 degree phase pulse Reversible UP and Down counting with direction

INA :A phase increase count, connect between INA and GND

INB: B phase decrease count, connect between INB and GND

Changing A and B phase wiring position can change the counting UP OR Down

control output application

1 R control output: preset value 1(SV1) > preset value 2(SV2) PV window displays total count

OUT1: if PV data >= SV1, OUT1 active, stop to count, after Delay time TIM1, reset PV data=0, reset OUT1 and OUT2 at the same time

OUT2: if PV data >= SV2, OUT2 active, but continue to count, after Delay time TIM2, reset OUT2

2 C control output(only for SV1)

OUT1: if PV data >= SV1, OUT1 active and reset PV data=0 immediately, continue to count from 0, after Delay time TIM1, reset OUT1 and OUT2 at the same time

3 F control output: totalize count

OUT1: if PV data >= SV1, OUT1 active, continue to count, OUT1 keeping active until manual reset

OUT2: if PV data >= SV2, OUT2 active, continue to count, OUT2 keeping active until reset by OUT1 R C control or manual reset, NOTICE :required SV2 < SV1

4 N control output: one cycle output(only for OUT1)

OUT1: if PV data >= SV1, OUT1 active, stop to count, OUT1 keeping active until manual reset

5 H High alarm control output

OUT1: if PV data >= SV1, OUT1 active, continue to count, if PV data < SV1, OUT1 Inactive, continue to count, OUT1 can be reset by manual

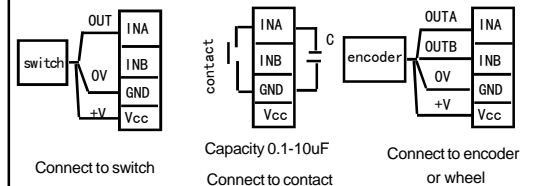
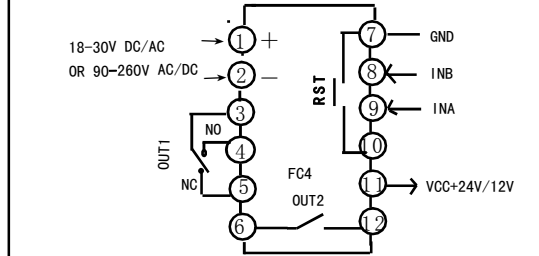
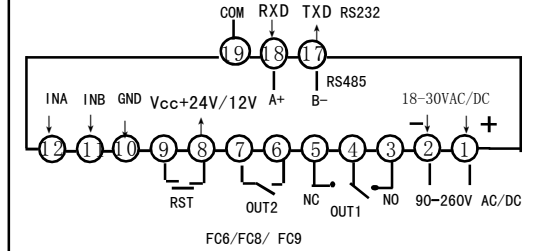
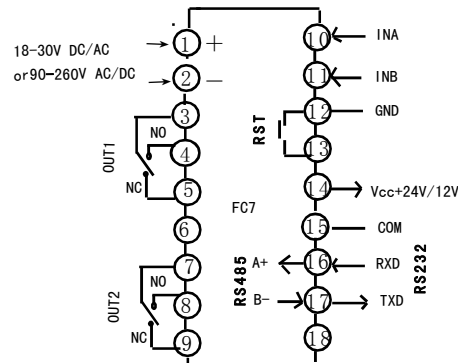
OUT2: if PV data >= SV2, OUT2 active, continue to count, if PV data < SV2, OUT2 Inactive, continue to count, OUT2 can be RESET by OUT1 R C control output or manual reset

6 L LOW alarm control output

OUT1: if PV data < SV1, OUT1 active, continue to count, if PV data >= SV1, OUT1 Inactive, continue to count, OUT1 can be reset by manual

OUT2: if PV data < SV2, OUT2 active, continue to count, if PV data >= SV2, OUT2 Inactive, continue to count, OUT2 can be RESET by OUT1 R C control output or manual reset

Terminal connection (refer to the table on meter)



Factory Products Contains

- ★ 1 Copy of user manual
- ★ 1 Inspection certificate
- ★ 2 installing brackets.

We are responsible for the overall repairment for the failure of manufacturing quality within 12 months since the date of purchase. Repair fee will be charged accordingly for damage caused by improper use..

Modbus protocol or other information

PLS Down load from : www.mypinchina.com
 IP/wechat: 86-18689341985
 Email: sale@mypinchina.com

Main Products

- weight indicator /controller
- Counter & length meter
- Temperature controller
- Time relay
- Ampere & Voltage meter
- Powermeter
- Frequency / Tacho / Line-speed meter
- Universal Sensor indicator
- Transmitter
- Proximity sensor Photo-electrical sensor