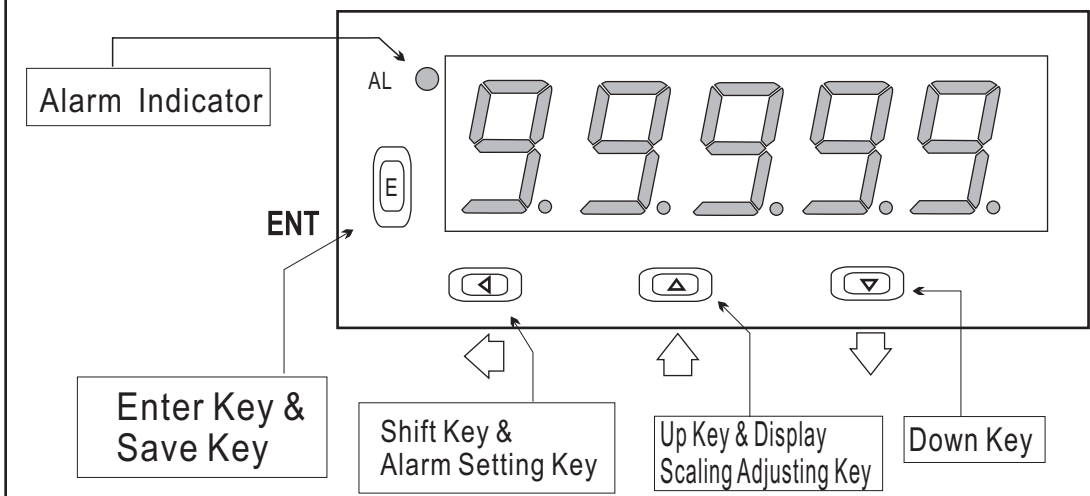


\* Please understand key indicators & functions at the first operation.

FRONT PANEL & KEY FUNCTIONS



Key Name	Symbol	Descriptions
Enter Key & Save Key	ENT	1. In the measuring status, press this key can enter to parameter pages. 2. In the parameter setting, press this key can save the value & go to next parameter.
Shift Key & Alarm Setting Key	⇐	1. In the measuring status, press this key for 3 sec can enter to alarm setting page. (The selecting digit will be flashed) 2. In the parameter setting, press this key can move the cursor left.
Up Key & Display Scaling Adjusting Key	⇑	1. In the measuring status, press this key for 3 sec can enter to display scaling adjustment. 2. In the parameter setting, press this key can increase the digits.
Down Key	⇓	1. In the parameter setting, press this key can decrease the digits.

- \*\*1. The following block charts are parameters codes, parameter codes & parameters will alternate flashing if the parameters can be modified.
- To modify the parameters, please press ⇐⇑⇓, and press ENT to save the parameters after the modification.
  - Please don't forget the new pass code after modification.
  - In any pages, press ⇑ & ⇓, or don't press any keys for 2 minutes that will back to measuring status.
  - Scaling Formula: Frequency Display = (Scale x Input Frequency)/PPR  
RPM Display = (Scale x Input Frequency x 60)/PPR  
Line-Speed Display = [Scale x Input RPM x 3.1416 (π)]

GENERAL MODE OPERATING PROCEDURES

Block Charts	Display	Descriptions	Default
Power On		Alarm Setpoint	
10000	Measuring Status	Present value for measurement.	
Press ⇐ for 3 sec	Alarm Setpoint (AL)	Press ⇐⇑⇓ to modify alarm setpoint.	00000
Press ENT		Scaling Adjustment	
10000	Measuring Status	Present value for measurement.	
Press ⇑ for 3 sec	Scale Coefficient Adjustment (SCALE)	Press ⇐⇑⇓ to modify scale coefficient 2 (0.0001 ~9.9999). PS: 1. In Frequency & RPM types, this coefficient can be modified for display value. (Please refer to Scaling Formula) 2. In Line-Speed type, this coefficient means "diameter" of the roll, the unit will be changed by selecting display unit. EX: If the display unit is "Meter", the diameter is also showed "Meter".	10000
Press ENT			

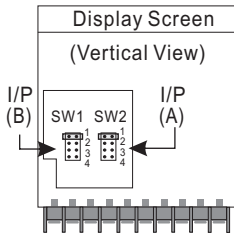
## PROGRAMMING MODE OPERATING PROCEDURES

Block Charts	Display	Descriptions	Default
Power ON	10000	Measuring Status	
Press ENT	P.Cod	Pass Code (P.Cod)	00000
Press ENT	P.Code Correct	Pass code is correct that will enter to parameter groups. Pass code is wrong that will back to measuring status.	
Press ←	SYS	System Setting Page (SYS)	
Press ENT	dP	Decimal Point Setting (dP)	0
Press ENT	tYPE	Input Type Setting (tYPE)	Customers specify
Press ENT	Linear-Speed	<b>The following steps are only available for Line-Speed type.</b>	
Press ←	Unit	Line-Speed Unit Setting (Unit)	Customers specify
Press ENT	PPr	PPR Setting (PPr)	00001
Press ENT	tbASE	Sampling Time Base (tbASE)	0000.1
Press ENT	AvG	Display Average Setting (AvG)	00005
Press ENT	CodE	Pass Code Setting (CodE)	00000
Press ENT	LoCK	Key Lock Setting (LoCK)	no
<b>Alarm Setting Group Procedures</b>			
Press ←	roP	Alarm Setting Page (roP)	<b>The following steps are not available for alarm output.</b>
Press ENT	ACt	Alarm Action Setting (ACt)	Hi
Press ENT	HYS	Alarm Hysteresis Setting (HYS)	00000
Press ENT	dEL	Alarm Run Delay Setting (dEL)	00000

### Error Code of Self-Diagnosis

Display	Descriptions	Remark
1 oFL	Input signal is over input range (0~100KHz).	**Please check the wiring connection is correct first, if the problem still exist, please return the meter to the factory.
doFL	Input signal is over display range (99999).	
E-00	EEPROM reading/writing suffers the interference (about 1 million times).	

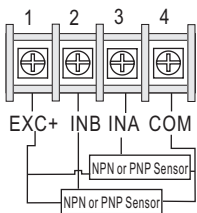
# Input Signal Modification



**\*\*To Select the pin to modify the input signal for different sensors.**  
**PS: In dual input type, excitation power must be the same.**

SW1/SW2	JUMPER	DEFINITION
	1	Open: 12V; Close: 5V
	2	Open: 100KHz; Close: 100Hz
	3	Open: NPN; Close: PNP
	4	Open: PNP; Close: NPN

**\*\*Connection:**



**NPN (5V): 400 Hz**

JUMPER	SW1/SW2
1	
2	
3	
4	

**NPN (5V): 10 KHz**

JUMPER	SW1/SW2
1	
2	
3	
4	

**NPN (12V): 400 Hz**

JUMPER	SW1/SW2
1	
2	
3	
4	

**NPN (12V): 10 KHz**

JUMPER	SW1/SW2
1	
2	
3	
4	

**PNP (5V): 400 Hz**

JUMPER	SW1/SW2
1	
2	
3	
4	

**PNP (5V): 10 KHz**

JUMPER	SW1/SW2
1	
2	
3	
4	

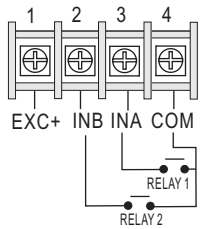
**PNP (12V): 400 Hz**

JUMPER	SW1/SW2
1	
2	
3	
4	

**PNP (12V): 10 KHz**

JUMPER	SW1/SW2
1	
2	
3	
4	

**\*\*Connection:**



**Relay Contact: NPN 400 Hz**

JUMPER	SW1/SW2
1	
2	
3	
4	

**\*\*For relay input type, please select NPN 400 Hz.**