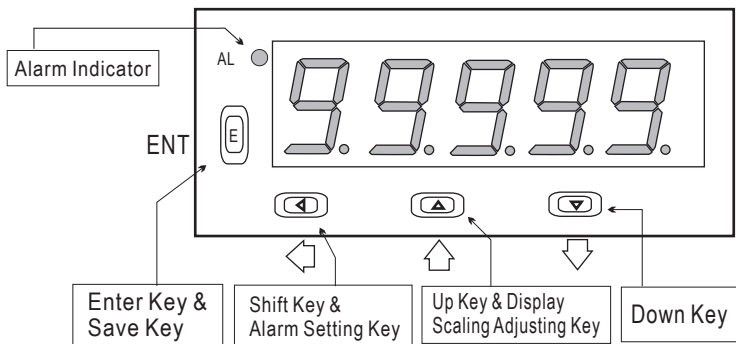


*Please understand key indicators & functions at the first operation.

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.

- 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.	
AL	Alarm Setpoint (AL)	Press ⇐⇑⇓ to modify alarm setpoint.	00000
10000	Measuring Status	Present value for measurement.	
SCALE	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

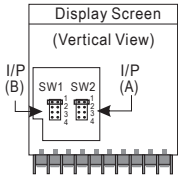
PROGRAMMING MODE OPERATING PROCEDURES

Block Charts	Display	Descriptions	Default
Power ON	10000	Measuring Status	Present value for measurement.
PCod	Pass Code (P.Cod)	Press ⇐⇑⇓ to enter pass code.	00000
P.Code Correct	545	System Setting Page (SYS)	Press ⇐ to select system setting group (SYS) or alarm setting group (roP).
dP	Decimal Point Setting (dP)	Press ⇐⇑⇓ to select decimal point (0, 1, 2, 3, 4) EX: if the value shows "0.00" that means the decimal point is 2 digits.	0
tYPE	Input Type Setting (tYPE)	Press ⇑⇓ to modify the input type (RPM/Line-Speed/Frequency)	Customers specify
Linear-Speed		The following steps are only available for Line-Speed type.	
Unit	Line-Speed Unit Setting (Unit)	Press ⇑⇓ to modify the unit of line-speed (Meter/Foot/Yard).	Customers specify
PPr	PPR Setting (PPr)	Press ⇐⇑⇓ to modify ppr (1~99999).	00001
tbASE	Sampling Time Base (tbASE)	Press ⇐⇑⇓ to modify sampling time base (0.1~999.9 sec).	0000.1
AvG	Display Average Setting (AvG)	Press ⇐⇑⇓ to modify display average (1~99). PS: Please use this function for stable display value when input signal is unstable.	00005
CodE	Pass Code Setting (CodE)	Press ⇐⇑⇓ to modify pass code (0~19999). PS: Please don't forget the new pass code after modification.	00000
LoCK	Key Lock Setting (LoCK)	Press ⇑⇓ to lock the keys, using key lock function only can view the parameters, but cannot modify any values. PS: no (unlock), YES ("ENT" unlock, others lock).	no
Alarm Setting Group Procedures			
roP	Alarm Setting Page (roP)	The following steps are not available for alarm output.	
ACt	Alarm Action Setting (ACt)	Press ⇑⇓ to modify alarm value that is ≥(Hi) or <(Lo) for alarm action.	Hi
HYS	Alarm Hysteresis Setting (HYS)	Press ⇐⇑⇓ to modify the value, when alarm runs lower or higher display value (depends on alarm action) Alarm setpoint ± this value(0~999) will turn off the alarm.	00000
dEL	Alarm Run Delay Setting (dEL)	Press ⇐⇑⇓ to modify the value, when the display value reach the alarm value that need to wait for this time (0~99 sec) for alarm action.	00000

ERROR CODE of SELF-DIAGNOSIS

Display	Descriptions	Remark
LoFL	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.
HoFL	Input signal is over display range (99999).	
E-00	EEPROM reading/writing suffers the interference (about 1 million times).	

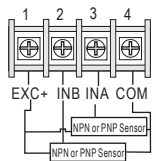
INPUT SIGNAL MODIFICATION



**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	• •

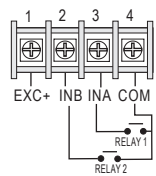
PNP (12V): 400 Hz

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.