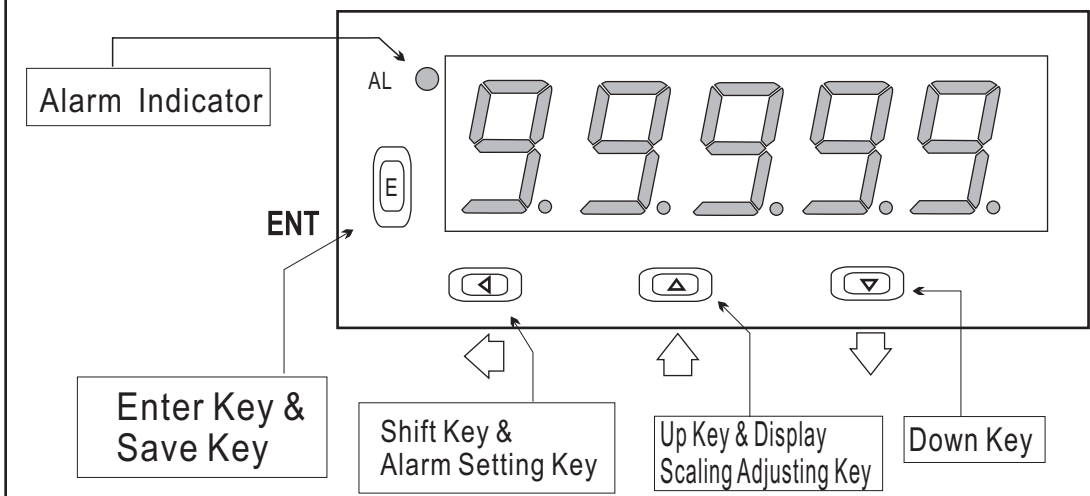


* Please understand key indicators & functions at the first operation.

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.
- 2. To modify the parameters, please press ← ↑ ↓, and press ENT to save the parameters after the modification.
- 3. Please don't forget the new pass code after modification.
- 4. In any pages, press ↑ & ↓, or don't press any keys for 2 minutes that will back to measuring status.

GENERAL MODE OPERATING PROCEDURES

Block Charts	Display	Descriptions	Default
Power On		Alarm Setpoint	
<p>10000 Press ← for 3 sec AL Press: ENT</p>	Measuring Status	Present value for measurement.	
	Alarm Setpoint (AL)	Press ← ↑ ↓ to modify alarm setpoint.	00000
		Scaling Adjustment	
<p>10000 Press ↑ for 3 sec SCALE Press: ENT</p>	Measuring Status	Present value for measurement.	
	Scale Coefficient Adjustment (SCALE)	Press ← ↑ ↓ to modify scale coefficient 2 (0.0001 ~9.9999).	10000

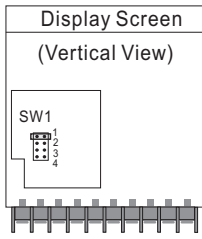
PROGRAMMING MODE OPERATING PROCEDURES

Block Charts	Display	Descriptions	Default
Power ON ↓ 10000	Measuring Status	Present value for measurement.	
Press: ENT ↓ P.Cod	Pass Code (P.Cod)	Press \leftarrow \rightarrow \leftarrow to enter pass code.	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.	
NO Press: \leftarrow ↓ 5YS	System Setting Page (SYS)	Press \leftarrow to select system setting group (SYS) or alarm setting group (roP)	
YES Press: ENT ↓ dPE	K Factor Decimal Point Setting (dPK)	Press \leftarrow \rightarrow \leftarrow to select K factor decimal point (0, 1, 2, 3, 4) EX: if the value shows "0.00" that means the decimal point is 2 digits.	0
Press: ENT ↓ KF	K Factor Setting (tYPE)	Press \rightarrow \leftarrow to modify K factor (0~99999).	1000
Press: ENT ↓ Unit	Flow Unit Setting (Unit)	Press \rightarrow \leftarrow to modify the unit (Liter, Gal, C.C., m ³).	LitEr
Press: ENT ↓ C.tiME	Time Parameter Setting (C.tiME)	Press \rightarrow \leftarrow to modify time parameter (sec / min / hour).	SEC
Press: ENT ↓ dP	Decimal Point Setting (dP)	Press \leftarrow \rightarrow \leftarrow to select decimal point (0, 1, 2, 3, 4). EX: if the value shows "0.00" that means the decimal point is 2 digits.	Customers specify
Press: ENT ↓ tbASE	Sampling Time Base (tbASE)	Press \leftarrow \rightarrow \leftarrow to modify sampling time base (0.1~999.9 sec).	0000.1
Press: ENT ↓ AvG	Display Average Setting (AvG)	Press \leftarrow \rightarrow \leftarrow to modify display average (1~99). PS: Please use this function for stable display value when input signal is unstable.	00005
Press: ENT ↓ CodE	Pass Code Setting (CodE)	Press \leftarrow \rightarrow \leftarrow to modify pass code (0~19999). PS: Please don't forget the new pass code after modification.	00000
Press: ENT ↓ LoCK	Key Lock Setting (LoCK)	Press \rightarrow \leftarrow 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		
Press: \leftarrow ↓ roP	Alarm Setting Page (roP)	The following steps are not available for alarm output.	
Press: ENT ↓ ACt	Alarm Action Setting (ACt)	Press \rightarrow \leftarrow to modify alarm value that is \geq (Hi) or $<$ (Lo) for alarm action.	Hi
Press: ENT ↓ HYS	Alarm Hysteresis Setting (HYS)	Press \rightarrow \leftarrow \rightarrow to modify the value, when alarm runs lower or higher display value (depends on alarm action) Alarm setpoint \pm this value(0~999) will turn off the alarm.	00000
Press: ENT ↓ dEL	Alarm Run Delay Setting (dEL)	Press \rightarrow \leftarrow \rightarrow 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
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).	

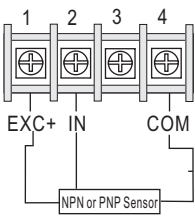
Input Signal Modification



****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): 0~100 Hz

JUMPER	SW1/SW2
1	
2	
3	
4	

NPN (5V): 0~100 KHz

JUMPER	SW1/SW2
1	
2	
3	
4	

NPN (12V): 0~100 Hz

JUMPER	SW1/SW2
1	
2	
3	
4	

NPN (12V): 0~100 KHz

JUMPER	SW1/SW2
1	
2	
3	
4	

PNP (5V): 0~100 Hz

JUMPER	SW1/SW2
1	
2	
3	
4	

PNP (5V): 0~100 KHz

JUMPER	SW1/SW2
1	
2	
3	
4	

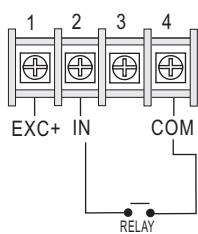
PNP (12V): 0~100 Hz

JUMPER	SW1/SW2
1	
2	
3	
4	

PNP (12V): 0~100 KHz

JUMPER	SW1/SW2
1	
2	
3	
4	

****Connection:**



Relay Contact: NPN 0~100 Hz

JUMPER	SW1/SW2
1	
2	
3	
4	

****For relay input type, please select NPN 0~ 100 Hz.**