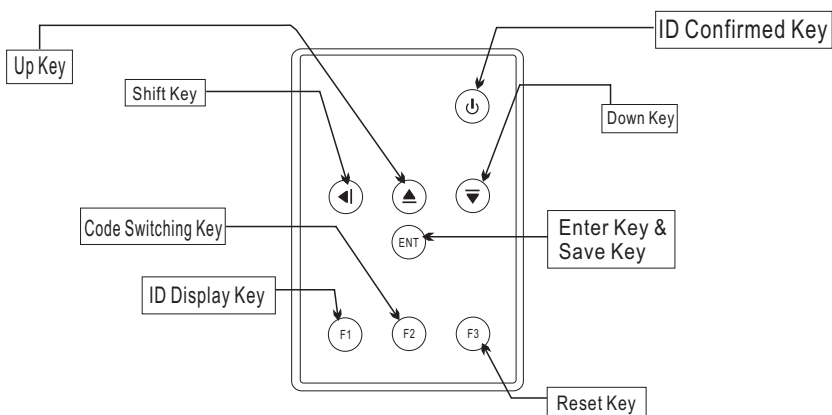


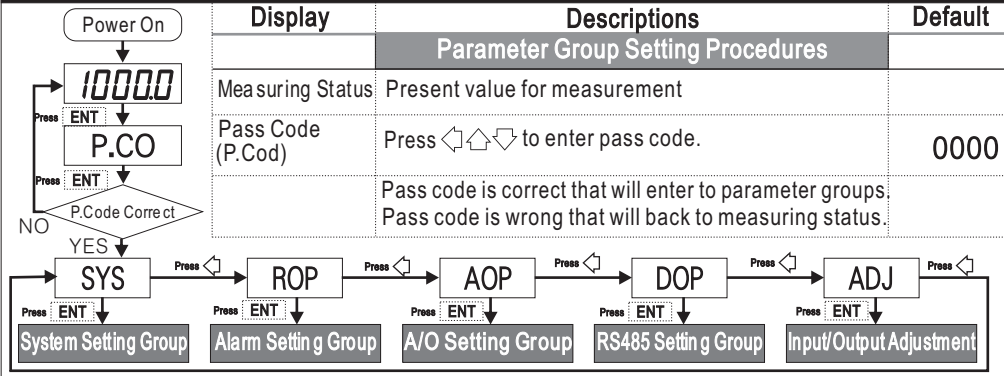
\* Please understand key indicators & functions at the first operation.

### FRONT PANEL & KEY FUNCTIONS



Key Name	Symbol	Descriptions
ID Confirmed Key	⏻	1. In the measuring status, press this key can enter to ID confirmed page. 2. In the parameter setting, press this key can back to the measuring page.
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	⬅	1. In the parameter setting, press this key can move the cursor left.
Up Key	⬆	1. 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.

### PROGRAMMING MODE OPERATING PROCEDURES



Display	Descriptions	Default
<b>System Setting Group Procedures</b>		
Press ENT → <b>SYS</b> Input Type A Setting (tYP)	Press ⬆⬇ to modify the input type A. (RPM/Linear-Speed/Frequency)	RPM
Press ENT → <b>Uni</b> Line-Speed Unit Setting (Uni)	Press ⬆⬇ to modify the unit of line-speed (Meter/Foot/Yard). <b>PS: Line-Speed type available</b>	M
Press ENT → <b>T.BA</b> Input A Sampling Time Base (T.BA)	Press ⬆⬆⬇ to modify sampling time base (0.1~999.9 sec).	2.0
Press ENT → <b>TY.B</b> Input Type B Setting (tY.B)	Press ⬆⬇ to modify the input type B. (RPM/Linear-Speed/Frequency)	RPM
Press ENT → <b>Un.B</b> Input B Line-Speed Unit Setting (Un.B)	Press ⬆⬇ to modify the unit of line-speed (Meter/Foot/Yard). <b>PS: Line-Speed type available</b>	M
Press ENT → <b>T.BB</b> Input B Sampling Time Base (T.BB)	Press ⬆⬆⬇ to modify sampling time base (0.1~999.9 sec).	2.0
Press ENT → <b>MAT</b> Math function Setting (MAT)	Press ⬆⬇ to modify math function Off, B+A, B-A, B/A, ER%[B/A-1], RA%[B/(B+A)]	OFF
Press ENT → <b>DIS</b> Display Selection Setting (diS)	Press ⬆⬇ to modify display selection (DUL, MAT, MAX, FR, V)	DUAL
Press ENT → <b>LCU</b> Display Low Cut Setting (LCU)	Press ⬆⬆⬇ to modify display low cut to 0 (0~99).	0000
Press ENT → <b>AVG</b> Display Average Setting (AvG)	Press ⬆⬆⬇ to modify display average (1~99). <b>PS: Please use this function for stable display value when input signal is unstable.</b>	0005
Press ENT → <b>FIL</b> Display Filter Setting (FiL)	Press ⬆⬇ to modify display filter setting (0, 1, 2, 5).	0000
Press ENT → <b>COD</b> Pass Code Setting (Cod)	Press ⬆⬆⬇ to modify pass code (0~19999). <b>PS: Please don't forget the new pass code after modification.</b>	0000
Press ENT → <b>LOC</b> Key Lock Setting (LoC)	Press ⬆⬇ to lock the keys, using key lock function only can view the parameters, but cannot modify any values. <b>PS: no (unlock), YES ("ENT" unlock, others lock).</b>	NO
Press ENT → <b>ID</b> Identification Setting (id)	Press ⬆⬆⬇ to modify identification (00~99). <b>PS: If the ID is 00; Meter can received any Infrared Control.</b>	0000

Display	Descriptions	Default
<b>Alarm Setting Group Procedures</b>		
ROP Press: ENT ↓	Alarm Setting Page (roP) <b>The following steps are only available for alarm output.</b>	
AL1 Press: ENT ↓	Alarm 1 Setpoint (AL1) Press ◀▶↕ to modify alarm 1 setpoint.	0000
AL2 Press: ENT ↓	Alarm 2 Setpoint (AL2) Press ◀▶↕ to modify alarm 2 setpoint.	0000
AL3 Press: ENT ↓	Alarm 3 Setpoint (AL3) Press ◀▶↕ to modify alarm 3 setpoint.	0000
AL4 Press: ENT ↓	Alarm 4 Setpoint (AL4) Press ◀▶↕ to modify alarm 4 setpoint.	0000
AC1 Press: ENT ↓	Alarm 1 (ACt1) Press ▲▼ to modify alarm value that is ≥(Hi) or <(Lo) for alarm action.	HI
AC2 Press: ENT ↓	Alarm 2 (ACt2) Press ▲▼ to modify alarm value that is ≥(Hi) or <(Lo) or (Go) for alarm action.	HI
AC3 Press: ENT ↓	Alarm 3 (ACt3) Press ▲▼ to modify alarm value that is ≥(Hi) or <(Lo) or (Err) for alarm action.	HI
AC4 Press: ENT ↓	Alarm 4 (ACt4) Press ▲▼ to modify alarm value that is ≥(Hi) or <(Lo) or (Err) for alarm action.	HI
HY1 Press: ENT ↓	Hysteresis 1 (HYS1) Press ◀▶↕ to modify the value, when alarm runs lower or higher display value (depends on alarm action). Alarm setpoint ± this range (0~999) will turn off the alarm. PS: 1. There are 4 alarms output optional. 2. This page is exist without alarm output, but the function will be disabled. 3. Press ENT to save the value and go to the next parameter.	0000
HY2 Press: ENT ↓	Hysteresis 2 (HYS2)	
HY3 Press: ENT ↓	Hysteresis 3 (HYS3)	
HY4 Press: ENT ↓	Hysteresis 4 (HYS4)	
DE1 Press: ENT ↓	Delay Time 1 (dEL1) 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. PS: 1. There are 4 alarms output optional. 2. This page is exist without alarm output, but the function will be disabled. 3. Press ENT to save the value and go to the next parameter.	00
DE2 Press: ENT ↓	Delay Time 2 (dEL2)	
DE3 Press: ENT ↓	Delay Time 3 (dEL3)	
DE4 Press: ENT ↓	Delay Time 4 (dEL4)	
SB Press: ENT ↓	Alarm Start Band Setting (Sb) Press ◀▶↕ to modify the value (-99~+99), if the display value don't over this range; the alarm will not be act.	00
SdT Press: ENT ↓	Alarm Start Band Time Setting (Sdt) Press ◀▶↕ to modify the value (0~99 sec), if the display value reach alarm start band value; the alarm will be act after this value (sec). (The function is used with "Sb" function.)	00
<b>A/O Setting Group Procedures</b>		
AOP Press: ENT ↓	A/O Setting Page (AoP) <b>The following steps are only available for analog output.</b>	
POL Press: ENT ↓	A/O Polarity Setting (PoLAr) Press ▲▼ to select output for positive or negative pole. PS: Voltage output, NO: positive pole output (0~+10V) YES: positive & negative pole output (-10~+10V)	NO
ANL Press: ENT ↓	A/O Low Scale Setting (AnLo) Press ◀▶↕ to adjust A/O low scale to correspond to the display value (programmable). EX: A/O is 0~10V, the display is 10.0 to output 0V, this value must be set for 10.0.	0000
ANH Press: ENT ↓	A/O Hi Scale Setting (AnHi) Press ◀▶↕ to adjust A/O hi scale to correspond to the display value (programmable). EX: A/O is 0~10V, the display is 90.0 to output 1 0V, this value must be set for 90.0.	9999

Display	Descriptions	Default
<b>RS485 Setting Group Procedures</b>		
DOP Press: ENT ↓	RS485 Setting Page (doP) <b>The following steps are only available for RS-485.</b>	
ADD Press: ENT ↓	Address Setting (Addr) Press ◀▶↕ to modify address (0~255).	0000
BAU Press: ENT ↓	Baud Rate Setting (bAUd) Press ▲▼ to select baud rate (38400/19200/9600/4800).	384
PAR Press: ENT ↓	Parity Setting (PAri) Press ▲▼ to select parity (n.8.2/n.8.1/even/odd).	n.8.2.
FRA Press: ENT ↓	Frame Setting (FrAmE) Press ▲▼ to select frame type. (NO:Hi→Lo, YES:Lo→Hi)	NO
<b>Input / Output Adjustment Procedures</b>		
ADJ Press: ENT ↓		
SCA Press: ENT ↓	Scale Coefficient Adjustment (SCA) Press ◀▶↕ to modify scale coefficient 1 (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".	1.000
PPR Press: ENT ↓	PPR Setting (PPr) Press ◀▶↕ to modify input A ppr (1~99999).	0001
DP Press: ENT ↓	Input A Decimal Point Setting (dP) Press ▲▼ to select input A decimal point (0, 1, 2, 3, 4). EX: if the value shows "0.00" that means the decimal point is 2 digits.	0000
SC.B Press: ENT ↓	Scale Coefficient Adjustment (SC.B) Press ◀▶↕ to modify input B scale coefficient 1 (0.0001~9.9999).	1.000
PP.B Press: ENT ↓	PPR Setting (PP.B) Press ◀▶↕ to modify input B ppr (1~99999).	0001
DP.B Press: ENT ↓	Input B Decimal Point Setting (DP.B) Press ▲▼ to select input B decimal point (0, 1, 2, 3, 4). EX: if the value shows "0.00" that means the decimal point is 2 digits.	0000
AOF Press: ENT ↓	A/O Offset Setting (AoF) Press ◀▶↕ to analog output offset value (-1999~9999).	0000
AGA Press: ENT ↓	A/O Gain Setting (AGA) Press ◀▶↕ to analog output gain value (-1999~9999).	0000

### Error Code of Self-Diagnosis

Display	Descriptions
IO	Input signal is over input range (0~100KHz).
-IO	Input signal is over display range (99999).
E00	EEPROM reading/writing suffers the interference (about 1 million times).

\*\*Please check the wiring connection is correct first, if the problem still exist, please return the meter to the factory.