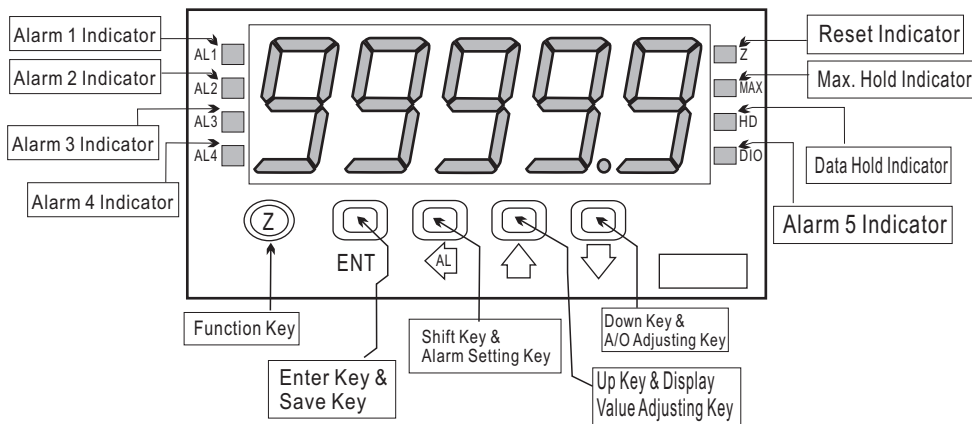


* Please understand key indicators & functions at the first operation.

FRONT PANEL & KEY FUNCTIONS



Key Name	Symbol	Descriptions
Function Key	Ⓩ	1. Press this key to enable the Z key function & the relative indicator is light; press this key again to disable the Z key function & the relative indicator is dark.
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	←AL	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 Value Adjusting Key	↑	1. In the measuring status, press this key for 3 sec can enter to display value adjustment of "ZERO" & "SPAN" 2. In the parameter setting, press this key can increase the digits.
Down Key & A/O Adjusting Key	↓	1. In the measuring status, press this key for 3 sec can enter to analog output adjustment. 2. 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 parameter 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
Alarm Setpoint			
Power ON	10000	Measuring Status	Present value for measurement
Press: ← for 3 sec	AL 1	Alarm 1 Setpoint (AL1)	Press ←↑↓ to modify alarm 1 setpoint.
Press: ENT	AL 2	Alarm 2 Setpoint (AL2)	Press ←↑↓ to modify alarm 2 setpoint.
Press: ENT	AL 3	Alarm 3 Setpoint (AL3)	Press ←↑↓ to modify alarm 3 setpoint.
Press: ENT	AL 4	Alarm 4 Setpoint (AL4)	Press ←↑↓ to modify alarm 4 setpoint.
Press: ENT	AL 5	Alarm 5 Setpoint (AL5)	Press ←↑↓ to modify alarm 5 setpoint.
Display: "ZERO" & "SPAN" Adjustment			
Power ON	10000	Measuring Status	Present value for measurement.
Press: ↑ for 3 sec	dPEro	Display Zero Adjust ent (dZEro)	Press ↑ to select adjusting speed rate, press ↑ ↓ to modify the zero value. PS: To use this function to adjust the real zero value.
Press: ENT	dSPAN	Display Span Adjustment (dSPAN)	Press ← to select adjusting speed rate, press ↑ ↓ to modify the span value. PS: To use this function to adjust the real span value.
Analog Output: "ZERO" & "SPAN" Adjustment			
Power ON	10000	Measuring Status	The following steps are only available for analog out put.
Press: ↓ for 3 sec	APEro	A/O Zero Adjustment (AZEro)	Press ↓ to select adjusting speed rate, press ↑ ↓ to modify the A/O zero. PS: To use this function to adjust the real A/O zero.
Press: ENT	ASPA n	A/O Span Adjustment (ASPA n)	Press ← to select adjusting speed rate, press ↑ ↓ to modify the A/O span. PS: To use this function to adjust the real A/O span.
Press: ENT	Si n	Simulation Output Setting (SiM)	Press ↑ ↓ to select simulation output off(NO) or on(YES)
Press: ENT	Si n-u	Simulation Output Percent Setting (SiM-v)	Press ←↑↓ to modify simulation output percent (-100~+100%)

PROGRAMMING MODE OPERATING PROCEDURES

Block Charts	Display	Descriptions	Default
Parameter Group Setting Procedures			
Power On	10000	Measuring Status	Present value for measurement
Press: ENT	PCod	Pass Code (P.Cod)	Press ←↑↓ to enter pass code.
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			
YES	595	(SYS)	System Setting Group
Press: ←	roP	(roP)	Alarm Setting Group
Press: ←	RoP	(AoP)	A/O Setting Group

Display	Descriptions	Default
System Setting Group Procedures		
5YS Press: ENT	System Setting Page (SYS)	
dP Press: ENT	Decimal Point Setting (dP) Press \uparrow \downarrow 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
dSPL Press: ENT	Display Low Scale Setting (dSPL) Press \leftarrow \uparrow \downarrow to modify display low scale for the input signal zero value. EX: If the input signal is 4~20mA; 4mA is shown display 0.00, this parameter must be set for 000.00.	Customers specify
dSPH Press: ENT	Display Hi Scale Setting (dSPH) Press \leftarrow \uparrow \downarrow to modify display high scale for the input signal span value. EX: If the input signal is 4~20mA; 20mA is shown display 100.00, this parameter must be set for 100.00.	Customers specify
AvG Press: ENT	Display Average Setting (AvG) Press \leftarrow \uparrow \downarrow to modify display average (1~99). PS: Please use this function for stable display value when input signal is unstable.	00005
LCUt Press: ENT	Display Low Cut Setting (LCUt) Press \leftarrow \uparrow \downarrow to modify display low cut to 0 (0~99).	00000
CodE Press: ENT	Pass Code Setting (CodE) Press \leftarrow \uparrow \downarrow to modify pass code (0~19999). PS: Please don't forget the new pass code after modification.	00000
P-KEY Press: ENT	Z Key Functions Setting (Z-KEY) Press \uparrow \downarrow to select Z key functions AZ, MAX or HD	AP
LoCK Press: ENT	Key Lock Setting (LoCK) Press \uparrow \downarrow 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 Press: ENT	Alarm Setting Page (roP)	
ACT1 Press: ENT	Alarm 1 (ACT1)	Hi
ACT2 Press: ENT	Alarm 2 (ACT2)	
ACT3 Press: ENT	Alarm 3 (ACT3)	
ACT4 Press: ENT	Alarm 4 (ACT4)	
ACT5 Press: ENT	Alarm 5 (ACT5)	
HYS1 Press: ENT	Hysteresis 1 (HYS1)	00000
HYS2 Press: ENT	Hysteresis 2 (HYS2)	
HYS3 Press: ENT	Hysteresis 3 (HYS3)	
HYS4 Press: ENT	Hysteresis 4 (HYS4)	
HYS5 Press: ENT	Hysteresis 5 (HYS5)	

Display	Descriptions	Default
Alarm Run Delay Setting		
dEL1 Press: ENT	Delay Time 1 (dEL1)	00000
dEL2 Press: ENT	Delay Time 2 (dEL2)	
dEL3 Press: ENT	Delay Time 3 (dEL3)	
dEL4 Press: ENT	Delay Time 4 (dEL4)	
dEL5 Press: ENT	Delay Time 5 (dEL5)	
Sb Press: ENT	Alarm Start Band Setting (Sb) Press \leftarrow \uparrow \downarrow to modify the value (-99~+99), if the display value don't over this range; the alarm will not be act.	00000
Sdt Press: ENT	Alarm Start Band Time Setting (Sdt) Press \leftarrow \uparrow \downarrow 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.)	00000
A/O Setting Group Procedures		
roP Press: ENT	A/O Setting Page (AoP)	The following steps are only available for analog output.
PolAr Press: ENT	A/O Polarity Setting (PoLAr) Press \uparrow \downarrow 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
AnLo Press: ENT	A/O Low Scale Setting (AnLo) Press \leftarrow \uparrow \downarrow 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.	00000
AnHi Press: ENT	A/O Hi Scale Setting (AnHi) Press \leftarrow \uparrow \downarrow 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 10V, this value must be set for 90.0.	99999

Error Code of Self-Diagnosis	
Display	Descriptions
ioFL	Input signal is over 120% of input range.
-ioFL	Input signal is under -20% of input range.
AdEr	Input signal is over 180% of input range or meter error.
doFL	Input signal is over display range (99999)
-doFL	Input signal is under display range (-19999)
E-00	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.

Remark: 1. There are 3 parameter groups of "System Setting Group(SYS)", "Alarm Setting Group(roP)", "Analog Output Setting Group (AoP)" for modification.
2. Press \leftarrow to select each group page, and press ENT to enter each group or parameter page for modification or saving the parameters.
3. Some of optional functions of parameter pages still exist, but the functions are disable.