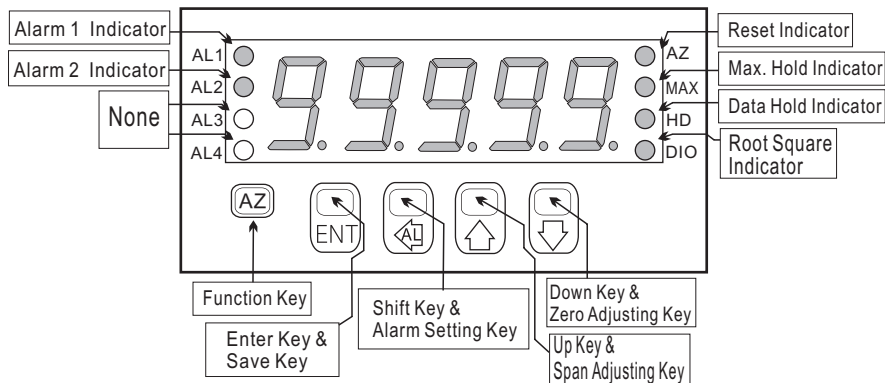


* Please understand key indicators & functions at the first operation.

FRONT PANEL & KEY FUNCTIONS



Key Name	Symbol	Descriptions
Reset Key	Ⓩ	1. Press this key to enable the reset function & reset indicator (Z) is light; press this key again to disable the reset function & reset indicator (Z) 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	←	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
	Measuring Status	Present value for measurement	
	Alarm 1 Setpoint (AL1)	Press ←↑↓ to modify alarm 1 setpoint.	00000
	Alarm 2 Setpoint (AL2)	Press ←↑↓ to modify alarm 2 setpoint.	00000
Display: "ZERO" & "SPAN" Adjustment			
	Measuring Status	Present value for measurement.	
	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.	00000
Analog Output: "ZERO" & "SPAN" Adjustment			
	Measuring Status	The following steps are only available for analog output.	
	Display Zero Adjustment (dZEro)	Press ← to select adjusting speed rate, press ↑ ↓ to modify the zero value. PS: To use this function to adjust the real zero value.	00000

- Remark: 1. There are 2 parameter groups of "System Setting Group(SYS)", "Alarm Setting Group(roP)", for modification.
 2. Press ← to select each group page, and press ENT to enter each group or parameter page for modification or saving the parameters.

PROGRAMMING MODE OPERATING PROCEDURES

Block Charts	Display	Descriptions	Default
	Measuring Status	Present value for measurement	
	Pass Code (P.Cod)	Press ←↑↓ to enter pass code.	00000
		Pass code is correct that will enter to parameter groups. Pass code is wrong that will back to measuring status.	

Display	Descriptions	Default
System Setting Group Procedures		
555 System Setting Page (SYS)		
dP 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 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 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 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 Display Low Cut Setting (LCUt)	Press \leftarrow \uparrow \downarrow to modify display low cut to 0 (0~99).	00000
CodE 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
Z-KEY Function Key Setting (Z-KEY)	Press \uparrow \downarrow to modify function key. PS: AZ (display value zeroed), Max (Max. hold), HD (Data hold), Sqrt (Root square)	
LoCK 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 Alarm Setting Page (roP)	The following steps are only available for alarm output.	
ACt1 Alarm 1 (ACt1)	Alarm Action Setting Press \uparrow \downarrow to modify alarm value that is \geq (Hi) or $<$ (Lo) for alarm action. PS: 1. There are 2 alarms output. 2. Press ENT to save the value and go to the next parameter.	Hi
ACt2 Alarm 2 (ACt2)		
HYS1 Hysteresis 1 (HYS1)	Alarm Hysteresis Setting Press \leftarrow \uparrow \downarrow 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. PS: 1. There are 2 alarms output. 2. Press ENT to save the value and go to the next parameter.	00000
HYS2 Hysteresis 2 (HYS2)		
dEL1 Delay Time 1 (dEL1)	Alarm Run Delay Setting Press \leftarrow \uparrow \downarrow 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 2 alarms output. 2. Press ENT to save the value and go to the next parameter.	00000
dEL2 Delay Time 2 (dEL2)		
Sb 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 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

Error Code of Self-Diagnosis	
Display	Descriptions
1.0FL	Input signal is over 120% of input range.
-1.0FL	Input signal is under -20% of input range.
RdEr	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.

CALIBRATION OPERATING PROCEDURES			
	Display	Descriptions	Default
Calibration			
10000 Press: ENT & \leftarrow together for 3 sec	Measuring Status	Present value for measurement Press ENT & \leftarrow together for 3 sec will enter to calibration operating procedures.	
1.nLo Press: ENT	Input Low Scale Calibration (inLo)	1. Input standard low scale signal. 2. Press \leftarrow \uparrow \downarrow to calibrate input low scale.	
1.nHi Press: ENT	Input Hi Scale Calibration (inHi)	1. Input standard hi scale signal. 2. Press \leftarrow \uparrow \downarrow to calibrate input hi scale.	
555 Press: \uparrow & \downarrow together for 3 sec	System Setting Page (SYS)	1. Finish calibration operating procedures will enter to system setting group. 2. Press \uparrow & \downarrow together to back to measuring status.	

Warning: Calibration of this meter requires a standard signal with 0.01% accuracy or better and an external meter with 0.005% accuracy or better.