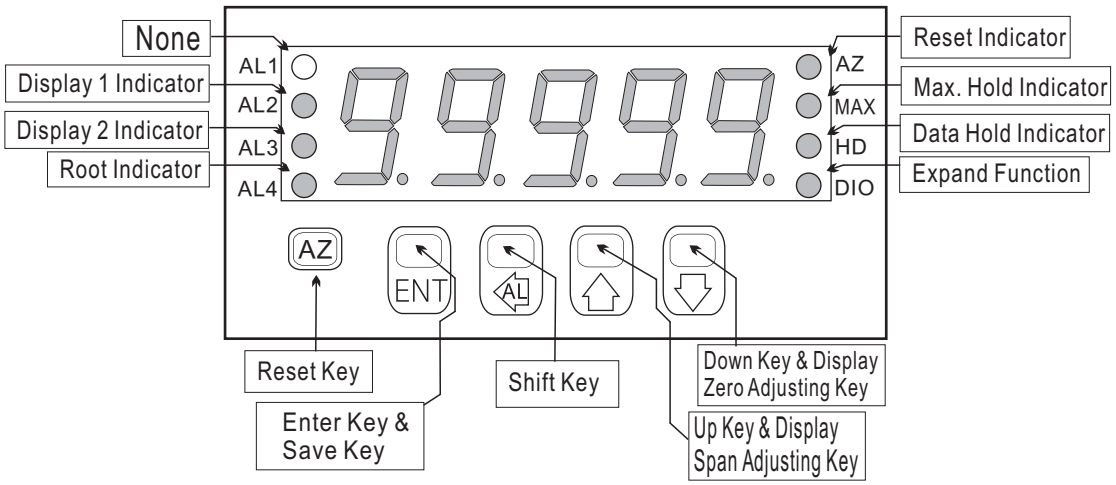
✱ Please understand key indicators & functions at the first operation.

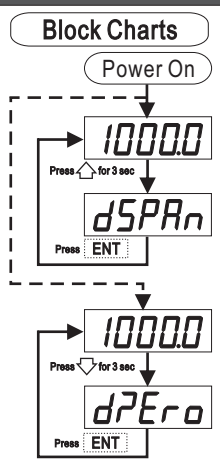
FRONT PANEL & KEY FUNCTIONS



Key Name	Symbol	Descriptions
Reset Key	Z	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	AL	1. In the parameter setting , press this key can move the cursor left.
Up Key & Display Span Adjusting Key	⇧	1.In the measuring status, press this key for 3 sec can enter to display value adjustment of "SPAN" 2. In the parameter setting, press this key can increase the digits.
Down Key & Display Zero Adjusting Key	⇩	1.In the measuring status, press this key for 3 sec can enter to display value adjustment of "ZERO" 2. In the parameter setting , press this key can decrease the digits.

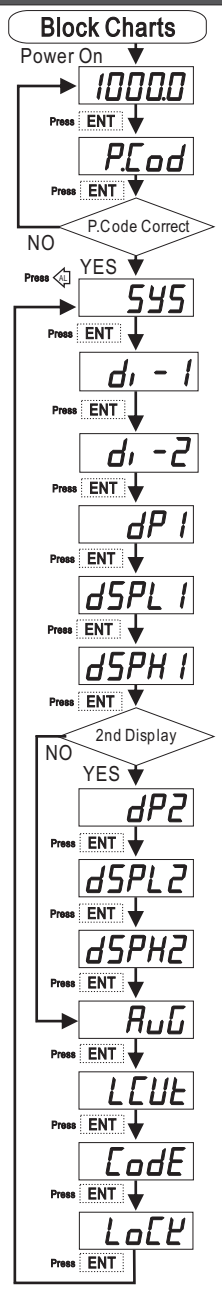
**1. The following block charts are parameters codes, parameter codes & parameters will alternate flashing if the parameters can be modified.
2. To modify the parameters, please press AL ⇧ ⇩, and press **ENT** to save the parameters after the modification.
3. Please don't forget the new pass code after 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



Display	Descriptions	Default
	Display: SPAN Adjustment	
Measuring Status	Present value for measurement.	
Display Span Adjustment (dSPAn)	Press AL to select adjusting speed rate, press ⇧⇩ to modify the span value. PS: To use this function to adjust the real span value.	00000
	Display: ZERO Adjustment	
Measuring Status	Present value for measurement.	
Display (dZEro) Adjustment (dZEro)	Press AL to select adjusting speed rate, press ⇧⇩ to modify the zero value. PS: To use this function to adjust the real zero value.	00000

ENGINEER LEVEL OPERATING PROCEDURES



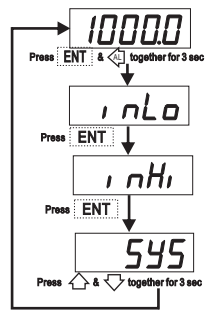
Display	Descriptions	Default
Measuring Status	Present value for measurement	
Pass Code (P.Cod)	Press ⏎ ⇧ ⇩ to enter pass code.	00000
	Pass code is correct that will enter to parameter groups. Pass code is wrong that will back to measuring status.	
System Setting Page (SYS)		
Control DI 1 Setting (di-1)	Press ⇧ ⇩ to select control DI parameters (2DSP, Z, MAX, HD); terminal 5 & 7 shorts. EX: D/I 1 is set for (AZ), when terminal 5 (DI1) & 7 (COM) shorts, the reset indicator (Z) will flash & the value will be reset 0. (Default: AZ: D/I 1 reset)	AZ
Control DI 2 Setting (di-2)	Press ⇧ ⇩ to select control DI parameters (2DSP, Z, MAX, HD); terminal 6 & 7 shorts. EX: D/I 1 is set for (2DISP), when terminal 6 (DI2) & 7 (COM) shorts, the display value 2 indicator (DISP2) will flash & show 2nd value. (Default: MAX: D/I 2 Max value)	MAX
Decimal Point 1 Setting (dP1)	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.	Customers specify
Display Low Scale 1 Setting (dSPL1)	Press ⏎ ⇧ ⇩ 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
Display Hi Scale 1 Setting (dSPH1)	Press ⏎ ⇧ ⇩ 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
	The following steps are only available when DI1 or DI2 is set for "2nd Display".	
Decimal Point 2 Setting (dP2)	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.	Customers specify
Display Low Scale 2 Setting (dSPL2)	Press ⏎ ⇧ ⇩ 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
Display Hi Scale 2 Setting (dSPH2)	Press ⏎ ⇧ ⇩ 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
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
Display Low Cut Settingn(LCUt)	Press ⏎ ⇧ ⇩ to modify display low cut to 0(0~99)	00000
Pass Code Setting (CodE)	Press ⏎ ⇧ ⇩ to modify pass code(0~19999) PS: Please don't forget the new pass code after modification.	00000
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)	non

Error Code of Self-Diagnosis

Display	Descriptions	Display	Descriptions
iofL	Input signal is over 120% of input range.	dofL	Input signal is over display range (99999)
-iofL	Input signal is under -20% of input range.	-dofL	Input signal is under display range (-19999)
AdEr	Input signal is over 180% of input range or meter error.	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
Measuring Status	Present value for measurement Press **ENT** & ⏎ together for 3 sec will enter to calibration operating procedures.	
Input Low Scale Calibration (inLo)	1. Input standard low scale signal. 2. Press ⏎ ⇧ ⇩ to calibrate input low scale. (LED flashing)	
Input Hi Scale Calibration (inHi)	1. Input standard hi scale signal. 2. Press ⏎ ⇧ ⇩ to calibrate input hi scale. (LED flashing)	
System Setting Page (SYS)	1. Finish calibration operating procedures will enter to system setting group. 2. Press ⇧ & ⇩ 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.