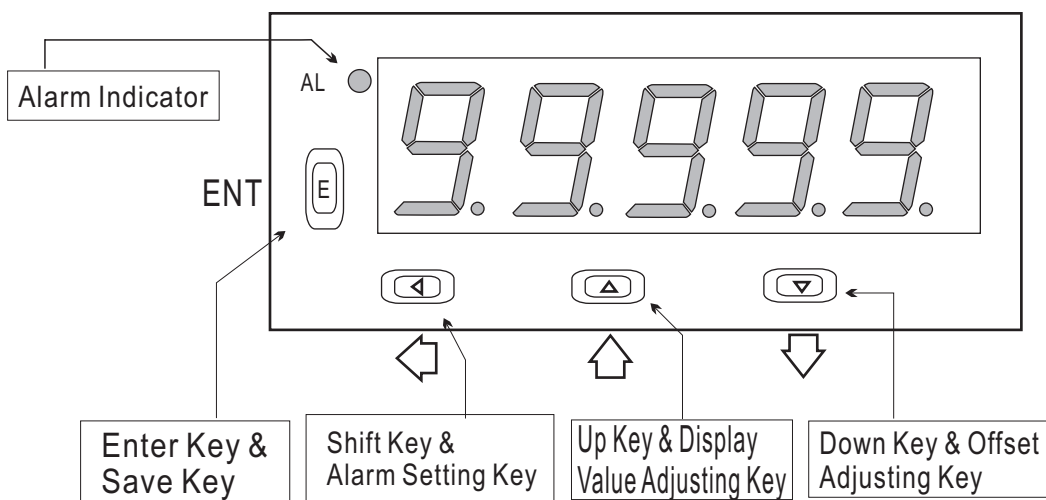✱ Please understand key indicators & functions at the first operation.

FRONT PANEL & KEY FUNCTIONS

Alarm Indicator

AL

ENT — E

Enter Key & Save Key

Shift Key & Alarm Setting Key

Up Key & Display Value Adjusting Key

Down Key & Offset Adjusting Key

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 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 ◁△▽ , 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**	
1000.0 — Press ◁ for 3 sec	Measuring Status	Present value for measurement.	
AL — Press ENT	Alarm (AL) Setpoint	Press ◁△▽ to modify the alarm setpoint.	00000
		Display: "ZERO" & "SPAN" Adjustment	
1000.0 — Press △ for 3 sec	Measuring Status	Present value for measurement.	
dPEro — Press ENT	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
dSPAn — Press ENT	Display (dZEro) 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
		Offset Adjustment	
1000.0 — Press ▽ for 3 sec	Measuring Status	Present value for measurement.	
oFSt — Press ENT	Offset Adjustment Setting (oFSt)	Press ◁△▽ to modify offset value.	00000

ENGINEER LEVEL 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 ◁△▽ to enter pass code.	`00000`
Press ENT ◇ P.Code Correct NO / YES		Pass code is correct that will enter to parameter groups. Pass code is wrong that will back to measuring status.	
Press ◁ `SYS`	System Setting Page (SYS)		
Press ENT `tYPE`	Sensor Type Setting (tYPE)	The page shows temperature sensor's type.	Customers specify
Press ENT `dP`	Decimal Point Setting (dP)	Press ◁△▽ to select decimal point (0, 1) EX: if the value shows "0.0" that means the decimal point is 1 digit.	Customers specify
Press ENT `unit`	Temperature Unit Setting (unit)	Press △▽ to select the units (℃ or ℉).	Customers specify
Press ENT `CJC`	Cold Junction Compensation (CJC)	Press △▽ can switch (on) or (off) cold junction compensation.	`no`
Press ENT `AvG`	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`
Press ENT `CodE`	Pass Code Setting (CodE)	Press ◁△▽ 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 △▽ 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.**	
Press ENT `ACtt`	Alarm Action Setting (ACtt)	Press △▽ to modify alarm value that is ≧(Hi) or <(Lo) for alarm action.	Customers specify
Press ENT `P.b`	Proportion Control Percentage (P.b)	Press ◁△▽ to modify proportion control percentage(0~999).	`00000`
Press ENT `C.tinE`	Proportion Time (C.time)	Press ◁△▽ to modify proportion time (0~99 sec).	`00000`
Press ENT			

Error Code of Self-Diagnosis

Display	Descriptions	Display	Descriptions
`coFL`	Cold junction is over sensor's (PT100) measuring range (0~100℃).	`doFL`	Input signal is over sensor's (T.C) measuring range.
`-coFL`	Cold junction is under sensor's (PT100) measuring range (0~100℃).	`-doFL`	Input signal is under senor's (T.C) measuring range.
`oPEn`	Input signal or cold junction is disconection.	`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

Block Charts	Display	Descriptions	Default
`10000` Press ENT & ◁ together for 3 sec	Measuring Status	Present value for measurement Press **ENT** & ◁ together for 3 sec will enter to calibration operating procedures.	
`inLo` Press ENT	Input Low Scale Calibration (inLo)	1. Input standard low scale signal. 2. Press ◁△▽ to calibrate input low scale.	
`inHi` Press ENT	Input Hi Scale Calibration (inHi)	1. Input standard hi scale signal. 2. Press ◁△▽ to calibrate input hi scale.	
`SYS` Press △ & ▽ together for 3 sec	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.