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

FRONT PANEL & KEY FUNCTIONS

Alarm Indicator

AL

ENT

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◁ △ ▽

| Enter Key & Save Key | Shift Key & Alarm Setting Key | Up Key & Display Span Adjusting Key | Down Key & Display Zero Adjusting Key |
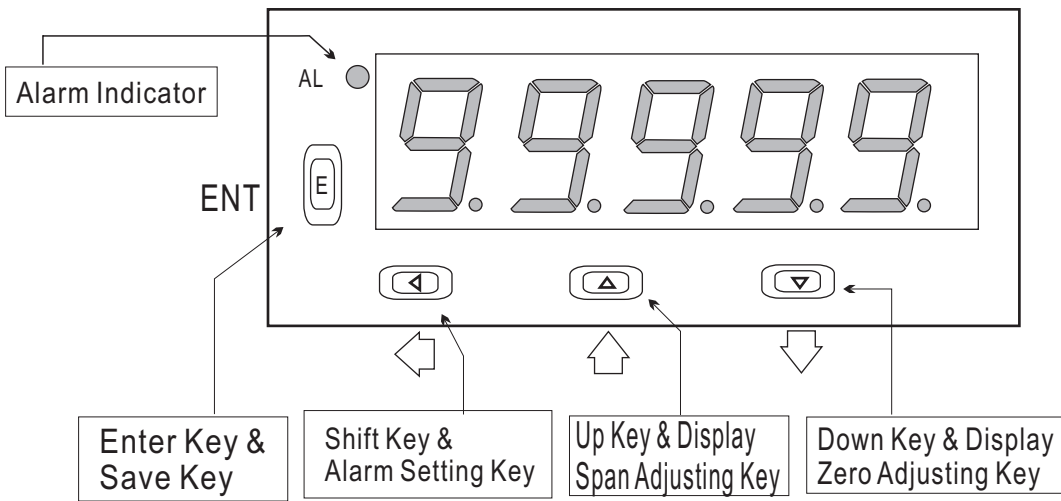
Key Name	Symbol	Descriptions
Enter Key & Save Key	ENT	1. In the measuring status, press this key can enter to parameter pages. 2. In the parameter setting, press this key can save the value & go to next parameter.
Shift Key & Alarm Setting Key	◁	1. In the measuring status, press this key for 3 sec can 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 AL Press ENT	Measuring Status	Present value for measurement.	
	Alarm (AL) Setpoint	Press ◁△▽ to modify the alarm setpoint.	00000
		Display: SPAN Adjustment	
1000.0 Press △ for 3 sec dSPAn Press ENT	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
		Display: ZERO Adjustment	
1000.0 Press ▽ for 3 sec dPEro Press ENT	Measuring Status	Present value for measurement.	
	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

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 ◁ to select system setting group (SYS) or alarm setting group (roP). PS: This function is only available for Alarm output.	
Press **ENT** `dP`	Decimal Point Setting (dP)	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
Press **ENT** `dSPL`	Display Low Scale Setting (dSPL)	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
Press **ENT** `dSPH`	Display Hi Scale Setting (dSPH)	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
Press **ENT** `AuG`	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** `LCUt`	Display Low Cut Settingn(LCUt)	Press ◁△▽ to modify display low cut to 0(0~99)	`00000`
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** `di`	Control DI Setting (di)	Press △▽ to select control DI off(YES) or on(NO). PS: Control DI (Z, MAX, HD) & (COM) shorts, the functions starts.	`no`
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

Block Charts	Display	Descriptions	Default
Press **ENT** `roP`	Alarm Setting Page (roP)	**The following steps are only available for alarm output.**	
Press **ENT** `ACt`	Alarm Action Setting (ACt)	Press △▽ to modify alarm value that is ≧(Hi) or <(Lo) for alarm action.	Customers specify
Press **ENT** `HYS`	Alarm Hysteresis Setting (HYS)	Press ◁△▽ to modify the value, when alarm runs lower or higher display value (depends on alarm action) Alarm setpoint ± this value(0~999) will turn off the alarm.	`00000`
Press **ENT** `dEL`	Alarm Run Delay Setting (dEL)	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.	`00000`
Press **ENT** `Sb`	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.	`00000`
Press **ENT** `Sdt`	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.)	`00000`

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
`1000.0` 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.