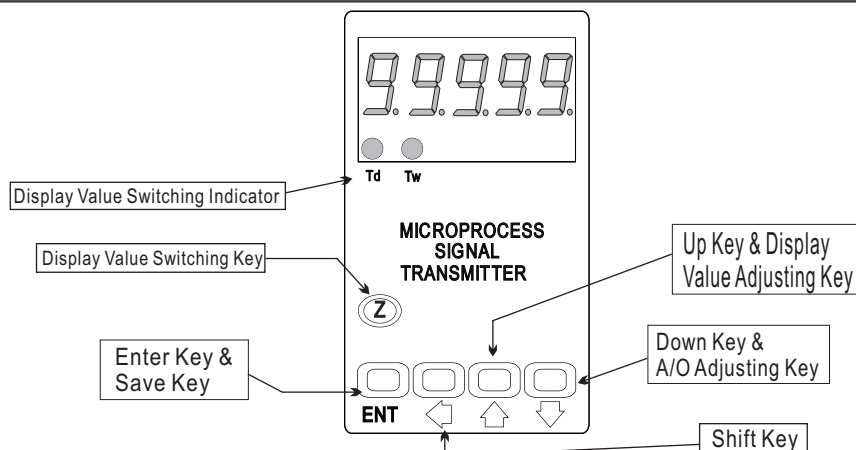


* Please understand key indicators & functions at the first operation.

FRONT PANEL & KEY FUNCTIONS



Key Name	Symbol	Descriptions
Display Value Switching Key		1. There are 3 display values for selection by Press this key; Td light means Dry Ball temp display; Tw light means Wet Ball temp display; Td & Tw dark means humidity display.
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		1. 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 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 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		Display: "ZERO" & "SPAN" Adjustment	
	Measuring Status	Present value for measurement.	
	Dry Ball 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
	Dry Ball 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
	Wet Ball Display Zero Adjustment (wZEro)	Press to select adjusting speed rate, press to modify the zero value. PS: To use this function to adjust the real zero value.	00000
	Wet Ball Display Span Adjustment (wSPAN)	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	Present value for measurement.	
	Temperature Zero Adjustment (dAZEr)	Press $\leftarrow$ to select adjusting speed rate, press $\triangleleft$ $\triangleright$ to modify the A/O zero. PS: To use this function to adjust the real A/O zero.	00000
	Temperature Span Adjustment (dASPA)	Press $\leftarrow$ to select adjusting speed rate, press $\triangleleft$ $\triangleright$ to modify the A/O span. PS: To use this function to adjust the real A/O span.	00000
	Temp. O/P Linear Adjustment (dLinE)	Press $\leftarrow$ to select adjusting speed rate, press $\triangleleft$ $\triangleright$ to modify the A/O linear. PS: To use this function to adjust the real A/O span.	00000
	A/O Zero Adjustment (AZEr o)	Press $\leftarrow$ to select adjusting speed rate, press $\triangleleft$ $\triangleright$ to modify the A/O zero. PS: To use this function to adjust the real A/O zero.	00000
	A/O Span Adjustment (ASPAn)	Press $\leftarrow$ to select adjusting speed rate, press $\triangleleft$ $\triangleright$ to modify the A/O span. PS: To use this function to adjust the real A/O span.	00000
	A/O Linear Adjustment (ALinE)	Press $\leftarrow$ to select adjusting speed rate, press $\triangleleft$ $\triangleright$ to modify the A/O linear. PS: To use this function to adjust the real A/O span.	00000

PROGRAMMING MODE OPERATING PROCEDURES

Block Charts	Display	Descriptions	Default
	Measuring Status	Present value for measurement.	
	Pass Code (P.Cod)	Press $\triangleleft$ $\triangleleft$ $\triangleleft$ 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.	
	Decimal Point Setting (dP)	Press $\triangleleft$ $\triangleleft$ $\triangleleft$ to select decimal point (0, 1, 2, 3, 4) EX: if the value shows "0.00" that means the decimal point is 2 digits.	00000
	Dry Bulb Average Setting (dAvG)	Press $\triangleleft$ $\triangleleft$ $\triangleleft$ to modify dry bulb display average (1~9999). PS: Please use this function for stable display value when input signal is unstable.	00005
	Wet Bulb Average Setting (dWbG)	Press $\triangleleft$ $\triangleleft$ $\triangleleft$ to modify wet bulb display average (1~9999). PS: Please use this function for stable display value when input signal is unstable.	00005
	Display Low Cut Setting (LCUt)	Press $\triangleleft$ $\triangleleft$ $\triangleleft$ to modify display low cut to 0 (0~99).	00000
	A/O Polarity Setting (PoOLAr)	Press $\triangleleft$ $\triangleleft$ $\triangleleft$ to modify output is positive pole or negative pole. PS: Voltage output, NO: positive pole output (0~+10V) YES: positive & negative pole output (-10~+10V)	no
	Temp. A/O Low Scale Setting (dAnLo)	Press $\triangleleft$ $\triangleleft$ $\triangleleft$ to adjust temperature A/O low scale to correspond to the display value. EX: A/O is 0~10V, the display is 10.0 to output 0V, this value must be set for 10.0.	00000
	Temp. A/O Hi Scale Setting (dAnHi)	Press $\triangleleft$ $\triangleleft$ $\triangleleft$ to adjust temperature A/O hi scale to correspond to the display value. EX: A/O is 0~10V, the display is 90.0 to output 10V, this value must be set for 90.0.	19999
	A/O Selection Setting (AnSoL)	Press $\triangleleft$ $\triangleleft$ to select analogue output 2 for RH or WET	rh
	A/O Low Scale Setting (AnLo)	Press $\triangleleft$ $\triangleleft$ $\triangleleft$ to adjust A/O low scale to correspond to the display value. EX: A/O is 0~10V, the display is 10.0 to output 0V, this value must be set for 10.0.	00000
	A/O Hi Scale Setting (AnHi)	Press $\triangleleft$ $\triangleleft$ $\triangleleft$ to adjust A/O hi scale to correspond to the display value. EX: A/O is 0~10V, the display is 90.0 to output 10V, this value must be set for 90.0.	99999
	Pass Code Setting (CodE)	Press $\triangleleft$ $\triangleleft$ $\triangleleft$ to modify pass code (0~19999). PS: Please don't forget the new pass code after modification.	00000
	Key Lock Setting (LoCK)	Press $\triangleleft$ $\triangleleft$ 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

Error Code of Self-Diagnosis

Display	Descriptions	Display	Descriptions
1 oFL	Input signal is over 120% of input range.	doFL	Math operating result is over display range (19999).
-1 oFL	Input signal is under -20% of input range.	-doFL	Math operating result is under display range (-19999).
RoFL	Input signal A is over display range (19999).	boFL	Input signal B is over display range (19999).
-RoFL	Input signal A is under display range (-19999).	-boFL	Input signal B 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
<pre> graph TD Start[10000] -- "Press: ENT & ← together for 3 sec" --> Lo1["1 nLo1"] Lo1 -- "Press: ENT" --> Hi1["1 nHi1"] Hi1 -- "Press: ENT" --> Lo2["1 nLo2"] Lo2 -- "Press: ENT" --> Hi2["1 nHi2"] Hi2 -- "Press: ENT" --> Sys["545"] Sys -- "Press: ↑ & ↓ together for 3 sec" --> Start </pre>	Measuring Status Present value for measurement Press ENT & together for 3 sec will enter to calibration operating procedures. Input Low Scale 1 Calibration (inLo1) 1. Input standard low scale signal to input 1. 2. Press > to calibrate input low scale. Input Hi Scale 1 Calibration (inHi1) 1. Input standard hi scale signal to input 1. 2. Press > to calibrate input hi scale. Input Low Scale 2 Calibration (inLo2) 1. Input standard low scale signal to input 2. 2. Press > to calibrate input low scale. Input Hi Scale 2 Calibration (inHi2) 1. Input standard hi scale signal to input 2. 2. Press > to calibrate input hi scale. 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.