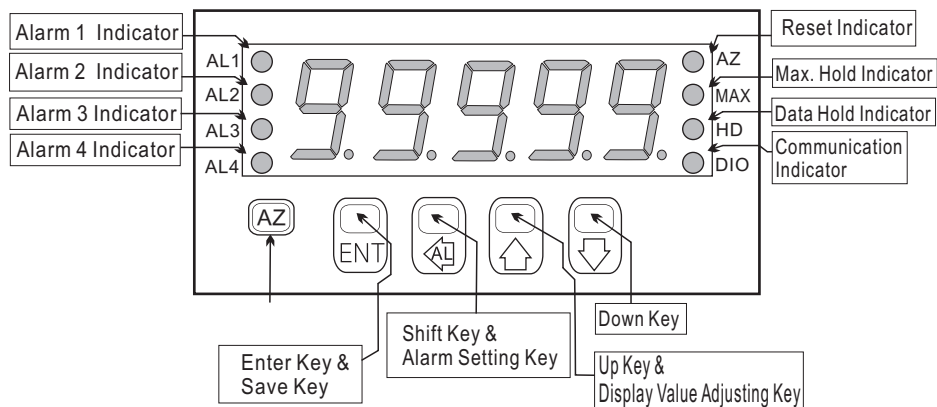


* Please understand key indicators & functions at the first operation.

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	AL	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	⬇	1. 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 $\leftarrow$ $\rightarrow$, 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 $\leftarrow$ & $\rightarrow$, 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	10000	Measuring Status	Present value for measurement
Press $\leftarrow$ for 3 sec	AL 1	Alarm 1 Setpoint (AL1)	Press $\leftarrow$ $\rightarrow$ to modify alarm 1 setpoint.
Press ENT	AL 2	Alarm 2 Setpoint (AL2)	Press $\leftarrow$ $\rightarrow$ to modify alarm 2 setpoint.
Press ENT	AL 3	Alarm 3 Setpoint (AL3)	Press $\leftarrow$ $\rightarrow$ to modify alarm 3 setpoint.
Press ENT	AL 4	Alarm 4 Setpoint (AL4)	Press $\leftarrow$ $\rightarrow$ to modify alarm 4 setpoint.
Press ENT		Display: "ZERO" & "SPAN" Adjustment	
Press $\leftarrow$ for 3 sec	10000	Measuring Status	Present value for measurement.
Press ENT	dZEro	Display Zero Adjustment (dZEro)	Press $\leftarrow$ to select adjusting speed rate, press $\rightarrow$ $\leftarrow$ to modify the zero value. PS: To use this function to adjust the real zero value.
Press ENT	dSPAN	Display Span Adjustment (dSPAN)	Press $\leftarrow$ to select adjusting speed rate, press $\rightarrow$ $\leftarrow$ to modify the span value. PS: To use this function to adjust the real span value.

- Remark: 1. There are 3 parameter groups of "System Setting Group(SYS)", "Alarm Setting Group(roP)", "RS485 Setting Group(doP)" for modification.
2. Press $\leftarrow$ to select each group page, and press **ENT** to enter each group or parameter page for modification or saving the parameters.
3. Some of optional functions of parameter pages still exist, but the functions are disable.

PROGRAMMING MODE OPERATING PROCEDURES

Block Charts	Display	Descriptions	Default
Power On	10000	Measuring Status	Present value for measurement
Press ENT	PCod	Pass Code (P.Cod)	Press $\leftarrow$ $\rightarrow$ to enter pass code.
Press ENT	P.Code Correct		Pass code is correct that will enter to parameter groups. Pass code is wrong that will back to measuring status.
Press $\leftarrow$	SYS	System Setting Group	
Press ENT	roP	Alarm Setting Group	
Press $\leftarrow$	doP	RS485 Setting Group	

Modbus RTU Mode Protocol Address Table

Data: 16Bit / 32Bit, +/- is 8000~7FFF (-32768~32767), 80000000~7FFFFFFF(-2147483648~2147483647)

Modbus	HEX	Name	Descriptions	Act
40001	0000	ID	Model number identification; DC5H-B is "05"	R
40002	0001	STATUS	Current alarm output & external control input status display; range: 0000~00FE (0:OFF, 1:ON) (Bit7:AL4, Bit6:AL3, Bit5:AL2, Bit4:AL1, Bit3:HD, Bit2:MAX, Bit1:AZ)	R
40003	0002	FUNC	Parameters setting; range: 0000~00FF (0~255) Bit0~3: ACT1~4 (0:HI, 1:LO), Bit4:CON, Bit5:POLAR, Bit6:LOCK, Bit7:FRAME (0:NO, 1:YES)	R/W
40004	0003	MATH	Math setting; range: 0000~0003 (0:ADD, 1:SUB, 2:MUL, 3:DIV)	R/W
40005	0004	DP	Decimal point setting; range: 0000~0004 (0~4) 0:10 ⁰ , 1:10 ⁻¹ , 2:10 ⁻² , 3:10 ⁻³ , 4:10 ⁻⁴	R/W
40006	0005	BAUD	Baud rate setting; range: 0000~0003 (0~3) 0:38400, 1:19200, 2:9600, 3:4800	R/W
40007	0006	PARI	Parity setting; range: 0000~0003 (0~3), 0:N.8.2., 1:N.8.1., 2:EVEN, 3:ODD	R/W
40008	0007	AVG	Display average setting; range: 0001~0063 (1~99)	R/W
40009	0008	LCUT	Display low cut setting; range: 0000~0063 (0~99)	R/W
40010	0009	ADDR	Address setting; range: 0000~00FF (0~255)	R/W
40011	000A	DEL1	Alarm 1 act delay time setting; range: 0000~0063 (0~99)	R/W
40012	000B	DEL2	Alarm 2 act delay time setting; range: 0000~0063 (0~99)	R/W
40013	000C	DEL3	Alarm 3 act delay time setting; range: 0000~0063 (0~99)	R/W
40014	000D	DEL4	Alarm 4 act delay time setting; range: 0000~0063 (0~99)	R/W
40015	000E	SB	Alarm start band setting; range: FF9D~0063 (-99~99)	R/W
40016	000F	SDT	Alarm start delay time setting; range: 0000~0063 (0~99)	R/W
40017	0010	HYS1	Alarm 1 hysteresis setting; range: 0000~270F (0~9999)	R/W
40018	0011	HYS2	Alarm 2 hysteresis setting; range: 0000~270F (0~9999)	R/W
40019	0012	HYS3	Alarm 3 hysteresis setting; range: 0000~270F (0~9999)	R/W
40020	0013	HYS4	Alarm 4 hysteresis setting; range: 0000~270F (0~9999)	R/W
40021	0014	CODE	Pass code setting; range: 0000~4E1F (0~19999)	R/W
40022	0015	DSPL	Display low scale setting; range: FFFB1E1~0001869F (-19999~99999) Hi Bit	R/W
40023	0016		Display low scale setting; range: FFFB1E1~0001869F (-19999~99999) Low Bit	R/W
40024	0017	DSPH	Display hi scale setting; range: FFFB1E1~0001869F (-19999~99999) Hi Bit	R/W
40025	0018		Display hi scale setting; range: FFFB1E1~0001869F (-19999~99999) Low Bit	R/W
40026	0019	AL1	Alarm 1 setpoint setting; range: FFFB1E1~0001869F (-19999~99999) Hi Bit	R/W
40027	001A		Alarm 1 setpoint setting; range: FFFB1E1~0001869F (-19999~99999) Low Bit	R/W
40028	001B	AL2	Alarm 2 setpoint setting; range: FFFB1E1~0001869F (-19999~99999) Hi Bit	R/W
40029	001C		Alarm 2 setpoint setting; range: FFFB1E1~0001869F (-19999~99999) Low Bit	R/W
40030	001D	AL3	Alarm 3 setpoint setting; range: FFFB1E1~0001869F (-19999~99999) Hi Bit	R/W
40031	001E		Alarm 3 setpoint setting; range: FFFB1E1~0001869F (-19999~99999) Low Bit	R/W
40032	001F	AL4	Alarm 4 setpoint setting; range: FFFB1E1~0001869F (-19999~99999) Hi Bit	R/W
40033	0020		Alarm 4 setpoint setting; range: FFFB1E1~0001869F (-19999~99999) Low Bit	R/W

Modbus	HEX	Name	Descriptions	Act
40034	0021	DISPLAY	Current display; range: FFFB1E1~0001869F (-19999~99999) Hi Bit	R
40035	0022		Current display; range: FFFB1E1~0001869F (-19999~99999) Low Bit	R
40036	0023	INLO1	Input 1 low calibrated value display; range: 00029F16~004EA4A8 (171798~5153960) Hi Bit	R
40037	0024		Input 1 low calibrated value display; range: 00029F16~004EA4A8 (171798~5153960) Low Bit	R
40038	0025	INH1	Input 1 hi calibrated value display; range: 00029F16~004EA4A8 (171798~5153960) Hi Bit	R
40039	0026		Input 1 hi calibrated value display; range: 00029F16~004EA4A8 (171798~5153960) Low Bit	R
40040	0027	INLO2	Input 2 low calibrated value display; range: 00029F16~004EA4A8 (171798~5153960) Hi Bit	R
40041	0028		Input 2 low calibrated value display; range: 00029F16~004EA4A8 (171798~5153960) Low Bit	R
40042	0029	INH2	Input 2 hi calibrated value display; range: 00029F16~004EA4A8 (171798~5153960) Hi Bit	R
40043	002A		Input 2 hi calibrated value display; range: 00029F16~004EA4A8 (171798~5153960) Low Bit	R
40044	002B	MAX	Max. hold display; range: FFFB1E1~0001869F (-19999~99999) Hi Bit	R
40045	002C		Max. hold display; range: FFFB1E1~0001869F (-19999~99999) Low Bit	R
40046	002D	HOLD	Data hold display; range: FFFB1E1~0001869F (-19999~99999) Hi Bit	R
40047	002E		Data hold display; range: FFFB1E1~0001869F (-19999~99999) Low Bit	R
40048	002F	AZ	Auto zero; range: FFFB1E1~0001869F (-19999~99999) Hi Bit	R
40049	0030		Auto zero; range: FFFB1E1~0001869F (-19999~99999) Low Bit	R

CALIBRATION OPERATING PROCEDURES

	Display	Descriptions	Default
		Calibration	
	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.