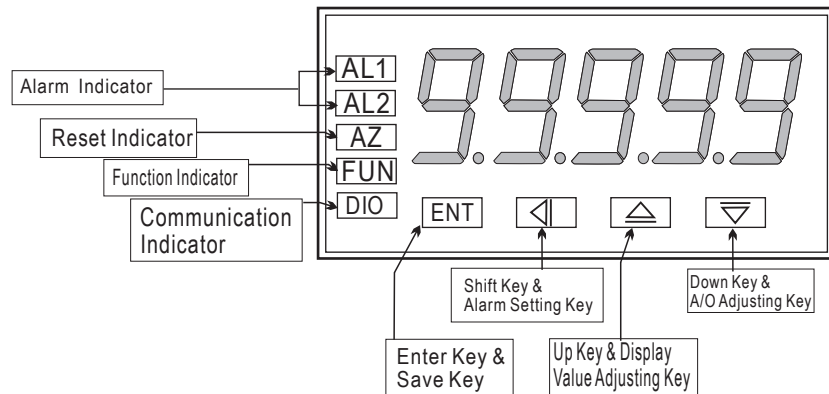


*Please understand key indicators & functions at the first operation.

FRONT PANEL & KEY FUNCTIONS



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 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 & 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.
Compound Key	↑+↓	1. In any status, press this key can back to measuring status.

- **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 parameter 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	12345	Measuring Status	Present value for measurement
Press ← for 3 sec	AL 1	Alarm 1 Setpoint (AL1)	Press ← ↑ ↓ to modify alarm 1 setpoint.
Press ENT	AL 2	Alarm 2 Setpoint (AL2)	Press ← ↑ ↓ to modify alarm 2 setpoint.
Press ENT			

Block Charts	Display	Descriptions	Default
Power ON	12345	Measuring Status	Present value for measurement.
Press ← for 3 sec	dZEro	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.
Press ENT	dSPAn	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.
Press ENT			
Press ← for 3 sec	APZEro	A/O Zero Adjustment (AZEro)	Press ← to select adjusting speed rate, press ↑ ↓ to modify the A/O zero. PS: To use this function to adjust the real A/O zero.
Press ENT	ASPAAn	A/O Span Adjustment (ASPAAn)	Press ← to select adjusting speed rate, press ↑ ↓ to modify the A/O span. PS: To use this function to adjust the real A/O span.
Press ENT			

- Remark: 1. There are 4 parameter groups of "System Setting Group(SYS)", "Alarm Setting Group(roP)", "Analog Output Setting Group (AoP)" & "RS485 Setting Group(doP)" for modification.
 2. Press ← 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	12345	Measuring Status	Present value for measurement
Press ENT	P.Cod	Pass Code (P.Cod)	Press ← ↑ ↓ to enter pass code.
Press ENT			
P.Code Correct	545	Pass code is correct that will enter to parameter groups. Pass code is wrong that will back to measuring status.	
Press ←	roP	Alarm Setting Group	
Press ENT			
Press ←	AoP	A/O Setting Group	
Press ENT			
Press ←	doP	RS485 Setting Group	
Press ENT			
Press ←			
Press ENT			

Display	Descriptions	Default
System Setting Group Procedures		
System Setting Page (SYS)		
Press ENT → 555 Press ENT → dP	Decimal Point Setting (dP)	Customers specify
Press ENT → dSPL Press ENT → dSPH	Display Low Scale Setting (dSPL)	Customers specify
Press ENT → dSPH Press ENT → AvG	Display Hi Scale Setting (dSPH)	Customers specify
Press ENT → AvG Press ENT → LCUt	Display Average Setting (AvG)	00005
Press ENT → LCUt Press ENT → CodE	Display Low Cut Setting (LCUt)	00000
Press ENT → CodE Press ENT → LoCK	Pass Code Setting (CodE)	00000
Press ENT → LoCK	Key Lock Setting (LoCK)	no
Alarm Setting Group Procedures		
Press ENT → roP	Alarm Setting Page (roP)	The following steps are only available for alarm output.
Press ENT → Act1 Press ENT → Act2	Alarm 1 (Act1)	Hi
Press ENT → Act2 Press ENT → HYS1	Alarm 2 (Act2)	
Press ENT → HYS1 Press ENT → HYS2	Hysteresis (HYS1)	00000
Press ENT → HYS2 Press ENT → dEL1	Hysteresis 2 (HYS2)	
Press ENT → dEL1 Press ENT → dEL2	Delay Time 1 (dEL1)	00000
Press ENT → dEL2 Press ENT → Sb	Delay Time 2 (dEL2)	
Press ENT → Sb Press ENT → Sdt	Alarm Start Band Setting (Sb)	00000
Press ENT → Sdt	Alarm Start Band Time Setting (Sdt)	00000

Display	Descriptions	Default
A/O Setting Group Procedures		
Press ENT → RoP Press ENT → AnLo	A/O Setting Page (AoP)	The following steps are only available for analog output.
Press ENT → AnLo Press ENT → AnHi	A/O Low Scale Setting (AnLo)	00000
Press ENT → AnHi	A/O Hi Scale Setting (AnHi)	99999
RS485 Setting Group Procedures		
Press ENT → doP	RS485 Setting Page (doP)	The following steps are only available for RS-485.
Press ENT → Addr Press ENT → bAUd	Address Setting (Addr)	00000
Press ENT → bAUd Press ENT → PARi	Baud Rate Setting (bAUd)	19200
Press ENT → PARi	Parity Setting (PARi)	nB2

Error Code of Self-Diagnosis

Display	Descriptions
1 oFL	Input signal is over 120% of input range.
-1 oFL	Input signal is under -20% of input range.
AdEr	Input signal is over 180% of input range or meter error.
doFL	Input signal is over display range (99999)
-doFL	Input signal is under display range (-19999)
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.

Modbus RTU Mode Protocol Address Table

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

HEX	Name	Descriptions	Act
0000	ID	Model number identification; DC5X-AS is "00"	R
0001	STATUS	Current alarm output status display; range: 0000~00FE (0~15) (0:OFF, 1:ON) (Bit0:AL1, Bit1:AL2)	R
0002	ACT	Parameters setting; range: 0000~00FF (0~15) Bit0~1: ACT1~2 (0:HI, 1:LO)	R/W
0003	FUNC	External control input status display; range: 0000~0003 (0~3) (0:NON, 1:HD, 2:MAX, 3:SQRT)	R/W
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
0005	LOCK	Key lock setting; range: 0000~0001 (0~1) 0:NO, 1:YES	R/W
0006	BAUD	Baud rate setting; range: 0000~0003 (0~3) 0:38400, 1:19200, 2:9600, 3:4800	R/W
0007	PARI	Parity setting; range: 0000~0003 (0~3), 0:N.8.2., 1:N.8.1., 2:EVEN, 3:ODD	R/W
0008	AVG	Display average setting; range: 0001~0063 (1~99)	R/W
0009	LCUT	Display low cut setting; range: 0000~0063 (0~99)	R/W
000A	ADDR	Address setting; range: 0000~00FF (0~255)	R/W
000B	HYS1	Alarm 1 hysteresis setting; range: 0000~0063 (0~99)	R/W
000C	HYS2	Alarm 2 hysteresis setting; range: 0000~0063 (0~99)	R/W
000D	DEL1	Alarm 1 act delay time setting; range: 0000~0063 (0~99)	R/W
000E	DEL2	Alarm 2 act delay time setting; range: 0000~0063 (0~99)	R/W
000F	SB	Alarm start band setting; range: FF9D~0063 (-99~99)	R/W
0010	SDT	Alarm start delay time setting; range: 0000~0063 (0~99)	R/W
0011	CODE	Pass code setting; range: 0000~4E1F (0~19999)	R/W
0012	AZERO	Analog output zero setting; range: D8F1~270F (-9999~9999)	R/W
0013	ASpan	Analog output span setting; range: D8F1~270F (-9999~9999)	R/W
0014	DSPL	Display low scale setting; range: FFFB1E1~0001869F (-19999~99999) Hi Bit	R/W
0015		Display low scale setting; range: FFFB1E1~0001869F (-19999~99999) Low Bit	R/W
0016	DSPH	Display hi scale setting; range: FFFB1E1~0001869F (-19999~99999) Hi Bit	R/W
0017		Display hi scale setting; range: FFFB1E1~0001869F (-19999~99999) Low Bit	R/W
0018	AL1	Alarm 1 setpoint setting; range: FFFB1E1~0001869F (-19999~99999) Hi Bit	R/W
0019		Alarm 1 setpoint setting; range: FFFB1E1~0001869F (-19999~99999) Low Bit	R/W
001A	AL2	Alarm 2 setpoint setting; range: FFFB1E1~0001869F (-19999~99999) Hi Bit	R/W
001B		Alarm 2 setpoint setting; range: FFFB1E1~0001869F (-19999~99999) Low Bit	R/W
001C	ANLO	Analog output low scale setting; range: FFFB1E1~0001869F (-19999~99999) Hi Bit	R/W
001D		Analog output low scale setting; range: FFFB1E1~0001869F (-19999~99999) Low Bit	R/W
001E	ANHI	Analog output hi scale setting; range: FFFB1E1~0001869F (-19999~99999) Hi Bit	R/W
001F		Analog output hi scale setting; range: FFFB1E1~0001869F (-19999~99999) Low Bit	R/W
0020	DISPLAY	Current display; range: FFFB1E1~0001869F (-19999~99999) Hi Bit	R
0021		Current display; range: FFFB1E1~0001869F (-19999~99999) Low Bit	R