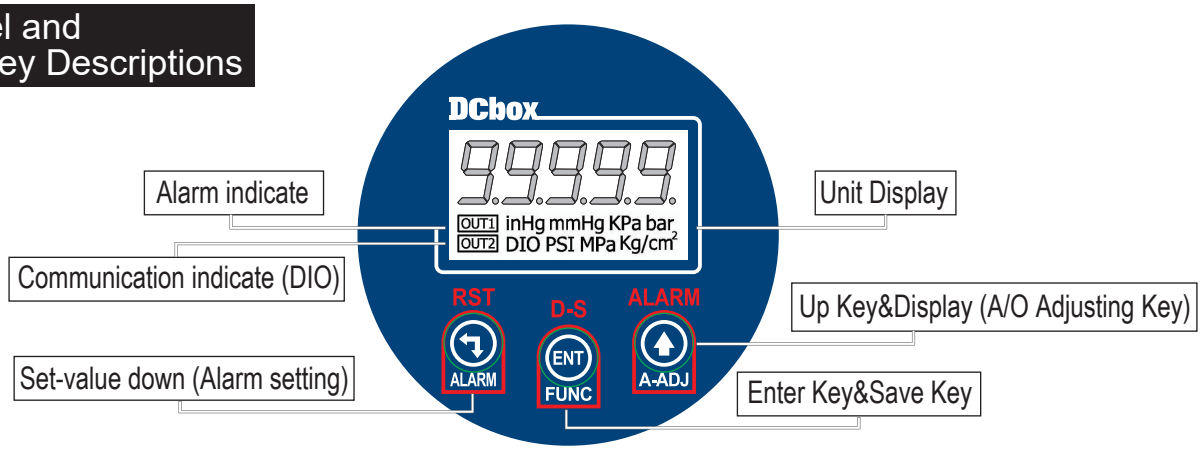
GPD3 2.5” DIGITAL PRESSURE SENSOR MANUAL

Front Panel and Function Key Descriptions



ENT FUNC	1.In normal display, The key function is call out setting page 2.In parameter setting page, The key function is data Enter , and go to next page
A-ADJ	1.In normal display, The key function is call out adjustment analog output (AZERO&ASPAN)page 2.Into parameter setting page, the parameter mark & data is alternate display, If need modify data can press up key into setting procedure, The display is lock parameter data, press and hold, the parameter data will increment.
ALARM	1.In normal display, The key function is call out alarm page 2.Into parameter setting page, the parameter mark & data is alternate display, If need modify data can press up key into setting procedure, The display is lock parameter data, press and hold, the parameter data will increment.
	In any setting page idle about 2 minutes, Will be returned to normal display.

General Mode Operating Procedures

Block Charts	Display	Descriptions	Default
Power On		**Alarm Setpoint**	
10000	Measuring Status	Present value for measurement.	
Press 5 sec. P-1	Alarm 1 (P-1) Setpoint	Press ⇧ ⇩ to modify alarm 1 setpoint.	00000
Press ENT P-2	Alarm 2 (P-2) Setpoint	Press ⇧ ⇩ to modify alarm 2 setpoint.	00000
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 will turn off the alarm.	00000
		Analog Output: "ZERO" &"SPAN" Adjustment	
10000	Measuring Status	Present value for measurement.	
Press 5 sec. AZEro	A/O Zero Adjustment (AZEro)	Press ⇧ ⇩ to modify the A/O zero. (-99~99) PS: To use this function to adjust the real A/O zero.	00000
Press ENT ASPAn	A/O Span Adjustment (ASPAn)	Press ⇧ ⇩ to modify the A/O span. (-99~99) PS: To use this function to adjust the real A/O span.	00000
Press ENT dZEro	Display Zero Adjustment (dZEro)	Press ⇧ ⇩ to adjust display value on zero point	00000
Press ENT dSPAn	Display Span Adjustment (dSPAn)	Press ⇧ ⇩ to adjust display value on span point	00000

Pressure Units Conversion Table

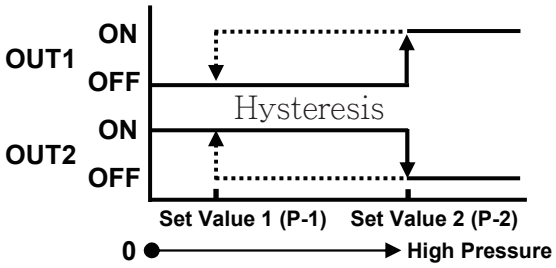
bar	Kg/cm^2	KPa	MPa	PSI	mmHg	inHg
1	1.01972	100	0.1	14.5036	750.062	29.53

Setting Mode Operating Procedures

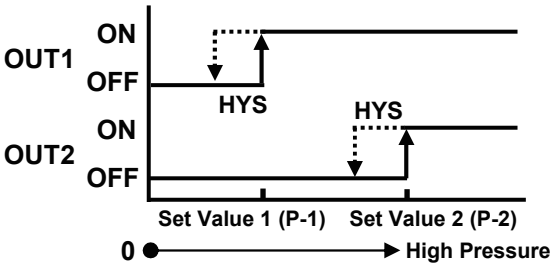
Block Charts		System Setting Group Procedures	
Power On → 10000	Measuring Status	Present value for measurement.	
Press ENT ↓ PCodE	Pass Code P.Cod)	Press AL to enter pass code.	00000
Press ENT ↓ rAnGE	Pressure Range Setting (rAnGE)	Press to select pressure range (-1~2, -1~10, 0~50, 0~250 bar)	-1. 10.
Press ENT ↓ unit	Pressure Unit Setting (unit)	Press to select sensor type (bar, kg/cm2, kpa, Mpa, PSI, mmHg, inHg)	bAr
Press ENT ↓ dP	Decimal Point Setting (dP)	Press to select decimal point (0~4).	Customers specify
Press ENT ↓ LCUt	Display Low Cut Setting (LCUt)	Press to modify display low cut to 0(0~99)	00000
Press ENT ↓ idC-t	Sampling Time Base (idC-t)	Press to modify sampling time base (0.1~9.9 sec).	0.5
Press ENT ↓ oUt-t	Output Mode Setting (oUt.t)	Press to modify output mode setting (H, C, D)	H
Press ENT ↓ AnLo	A/O Low Scale Setting (AnLo)	Press to adjust A/O low scale to correspond to the display value (programmable). EX : A/O is 0~10V, the display is 10.0 to output 0V, this value must be set for 10.0.	00000
Press ENT ↓ AnHi	A/O Hi Scale Setting (AnHi)	Press to adjust A/O hi scale to correspond to the display value (programmable). EX : A/O is 0~10V, the display is 90.0 to output1 0V, this value must be set for 90.0.	99999
Press ENT ↓ Addr	Address Setting (Addr)	Press to modify address (0~255).	00000
Press ENT ↓ bAUd	Baud Rate Setting (bAUd)	Press to select baud rate (19200/9600/4800/2400).	19200
Press ENT ↓ PAri	Parity Setting (PAri)	Press to select parity (n.8.2/n.8.1/even/odd).	n.8.2
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 Active Mode

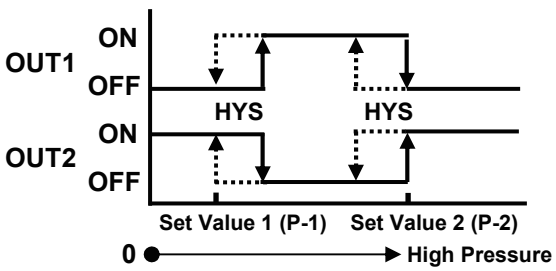
- OUT-T=H (Hysteresis mode)



- OUT-T=D (Dual output mode)



- OUT-T=C (Window comparator mode)



Modbus RTU Mode Protocol Address Table

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

HEX	Name	Descriptions	Act
0000	RANGE	Pressure range setting; range: 0000~0003 (0~3), 0:-1~2bar, 1:-1~10bar, 2:-1~50bar, 3:0~250bar	R/W
0001	UNIT	Pressure unit setting; range: 0000~0006(0~6) 0:bar, 1:kg/cm2, 2:kpa, 3:mpa, 4:mmHg, 5:PSI, 6:inHg	R/W
0002	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
0003	OUT-T	Output mode setting; range 0000~0002(0~2) 0:H, 1:C, 2:D	R/W
0004	ADDR	Address setting; range: 0000~00FF (0~255)	R/W
0005	BAUD	Baud rate setting; range: 0000~0003 (0~3) 0:19200, 1:9600, 2:4800, 3:2400	R/W
0006	PARI	Parity setting: range: 0000~0003 (0~3), 0:N.8.2., 1:N.8.1., 2:EVEN, 3:ODD	R/W
0007	LOCK	Key lock setting; range: 0000~0001 (0~1) 0:NO, 1:YES	R/W
0008	LCUT	Display low cut setting; range: 0000~0063 (0~99)	R/W
0009	IDC-T	Sampling time base setting; range: 0001~0063 (1~99)	R/W
000A	HYS	Alarm hysteresis setting; range: 0000~03E7 (0~999)	R/W
000B	AZERO	Analog output zero setting; range: 0000~4E20 (0~999)	R/W
000C	ASPAN	Analog output span setting; range: 4E20~FFFF (-999~65535)	R/W
000D	CJC	Temperature offset setting; range: FC19~4E20 (-999~999)	R/W
000E	ANLO	Analog output low scale setting; range: FFFFB1E1~0001869F (-19999~99999)	R/W
0010	ANHI	Analog output hi scale setting; range: FFFFB1E1~0001869F (-19999~99999	R/W
0012	CODE	Pass code setting; range: 000000000~0001869F (0~99999)	R/W
0014	P-1	Alarm 1 sepoint; range: FFFFB1E1~0001869F (-19999~99999)	R/W
0016	P-2	Alarm 2 sepoint; range: FFFFB1E1~0001869F (-19999~99999)	R/W
001C	DISPLAY	Display value; range: FFFFB1E1~0001869F (-19999~99999)	R