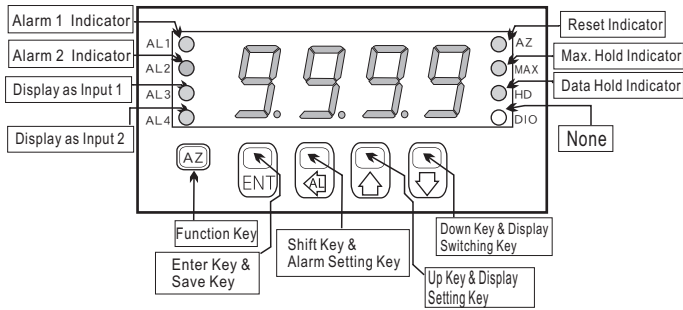
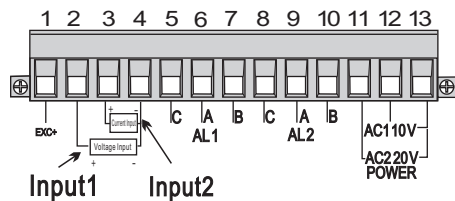


1.1 FRONT PANEL



1.2 KEY FUNCTIONS

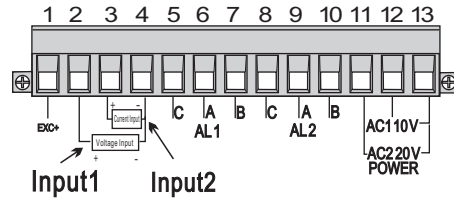
Symbol	Function Key	Description
Ⓞ	Function Key	1. In the measuring status, press this key can enable the setting function.
ENT	EnterKey& SaveKey	1. In the measuring status, press this key can enter to parameter groups. 2. In the parameter setting, press this key can save the value & go to the next parameter.
↩	ShiftKey& Alarm SettingKey	1. In the measuring status, press this key for 3 sec can enter to Alarm Setpoint Modification. 2. In the parameter page, press this key can enter to parameter setting. 3. In the parameter setting, press this key can move the cursor left.
↑	Up Key & Display Group Setting Key	1. In the measuring status, press this key for 3 sec can enter to Display Group Setting. 2. In the parameter page, press this key can back to the last parameter page. 3. In the parameter setting, press this key can increase the digit
↓	DownKey	1. In the measuring status, press this key for 3 sec can enter to A/O Group Setting. 2. In the parameter page, press this key can go to the next parameter page. 3. In the parameter setting, press this key can decrease the digit
↑+↓	Compound Key	1. In any status, press this key can back to measuring status.



※Note: 1.EXC+≥15V(20mA)
2.connect with Input 1, iP. SEL parameter please switch to i1; connect with Input 2 iP. SEL parameter please switch to i2. (Same as press ↵ for 3 sec.in the measuring status.)
Caution: Multi-input is different from dual input, please do not connect two signals at one time.

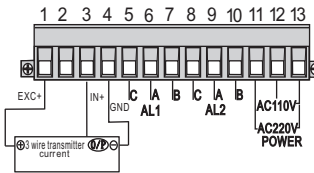
WIRING CONNECTION

• Multiple input (S01,S02,S03):

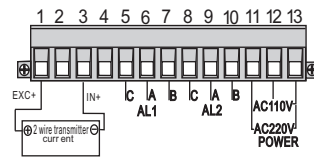


※Note: 1.EXC+≥15V(20mA)
2. connect with input 1, iP. SEL parameter, please switch to i1; connect with input 2 iP. SEL parameter, please switch to i2 (It is same as press ↵ for 3 sec. in the measuring status.)
3. The wiring connection for 2 wire transmitter; please check example1
4. Wiring connection for 3 wire transmitter; please check example2, example3

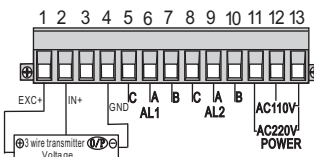
• Example 2:



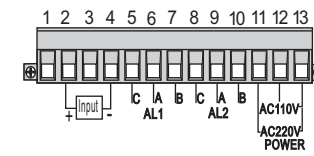
• Example 1:



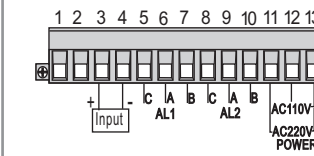
• Example 3:



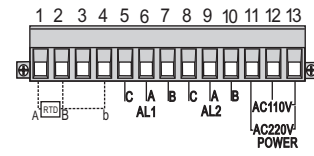
• Voltage(AC,DC):



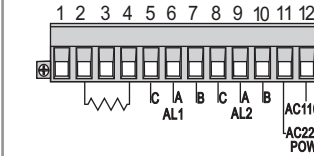
• Current(AC,DC):



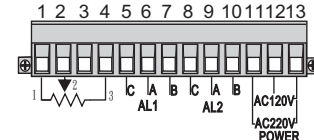
• Temperature (RTD):



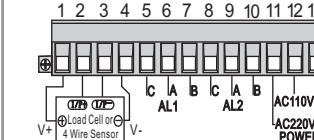
• 2 Wire Resistor:



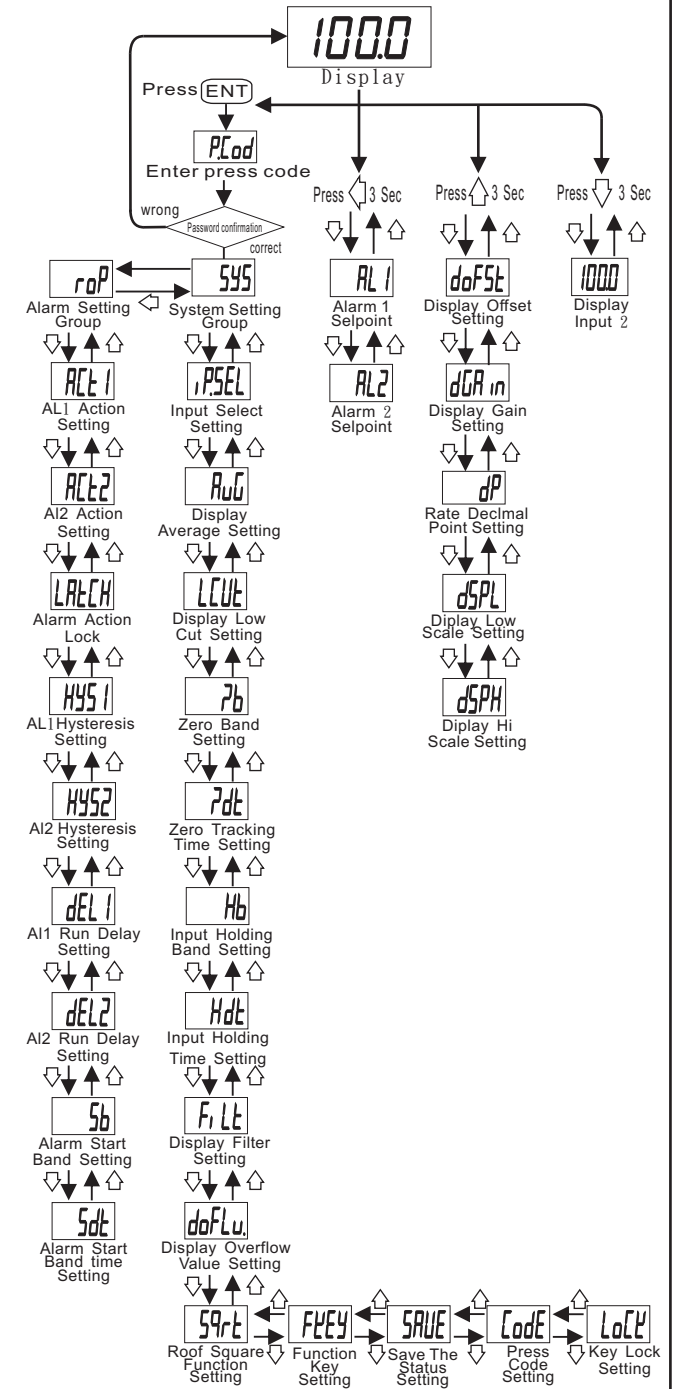
• 3 Wire Potentiometer:



• 4 Wire Sensor or Load cell:



2.1 OPERATING SEQUENCE



2.2 ALARM SETPOINT MODIFICATION

* In the measuring status ,press for 3 sec can enter to Alarm Setpoint Modification.

Display	Default	Name	Descriptions
AL1	0000	Alarm 1 Setpoint (AL1)	1.Example : present value 100.0 , if AL1 50.0 is required, AL1 must be set at 50.0. Range: -9999~9999
AL2	0000	Alarm 2 Setpoint (AL2)	2.Press ENT to save the value and go to next parameter.

2.3 DISPLAY SETTING

* In the measuring status, press for 3 sec can enter to Display Group Setting..

Display	Default	Name	Descriptions
doFSt	0000	Display Offset Setting (doFSt)	1. Example for Zero Band adjustment : when setting input 0V, if display is 3, please input 3 to correct the deviation Range: -9999~9999 2. Press ENT to save the value and go to next parameter.
dGAIn	0000	Display Gain Setting (dGAIn)	1. Example for display adjustment: when setting input 10V, if display is 99.8, Value + actual value =dGAIn, 100 + 99.8 = 1.002 (please setting 1.002) 2. Press ENT to save the value and go to the next parameter.
dP	0000	Decimal Point Setting (dP)	1. Decimal Point setting : for change display 100.0 to 10.00, please change the setting from 1 to 2 Range: 0, 1, 2, 3 (DP) 2. Press ENT to save the value and go to the next parameter.
dSPL	0000	Display Low Scale Setting (dSPL)	1. Ex : Setting 10 for display low scale 10 while input is 0V Range: -9999~9999 2. Press ENT to save the value and go to the next parameter.
dSPH	9999	Display Hi Scale Setting (dSPH)	1. Ex : Setting 100 for display Hi Scale 100 while input 10V. Range: -9999~9999 2. Press ENT to save the value and go to the next parameter.

2.4 ERROR CODE OF SELF-DIAGNOSIS

**In case no connection to specific specification (RTD, load cell, potentiometer), it will cause below situations:

Display	Descriptions
ioFL	Input signal is over 150% of input range.
-ioFL	Input signal is under -140% of input range.
RdEr	Input signal is over 180% of input range or meter error.
doFL	Input signal is over display range(9999).
-doFL	Input signal is under display range(-9999).

**In case above-mentioned problems occurred, please remove the input signals.If this cannot solve your problem, please contact with your distributor.

E-00	ERROR reading/writing suffers the interference (about 1 million times).
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**In case of E-00 situation, please select "No" and press "ENT" to save.If the problem (E-00) continues to occur, please contact with your distributor.

3. 1 SYSTEM(SYS)SETTING GROUP PROCEDURE

* While pass code is correct,press can select system setting group.

Display	Default	Name	Descriptions
PSEL	11	Input Select Setting (iP.SEL)	1. Example : set i1 to display input 1 Could be changed to i1 or i2 input. ※ This setting is suitable for multi-input. 2. Press ENT to save the value and go to next parameter.
AvG	0005	Display Average Setting (AvG)	1. Instruction : This is suitable for unsteady signal. The bigger setting value, more steady display value with slower reaction. Range: 1~99 (times) 2. Press ENT to save the value and go to the next parameter.
LCUt	0000	Display Low Cut Setting (LCUt)	1. Example : if require the display value 0 while value is under 10, then setting value shall be 10. Range: 0~99 2. Press ENT to save the value and go to the next parameter.
Zb	0000	Zero Band Setting (Zb)	Example : (Zb range:0 ~ 9.999) 1.Input 4-20mA display 0-600.0bar Required stationary value is 1.0bar Stationary range is Zero Band ±1.0 bar Calculation: (per mille ↓) Required stationary value + Hi input display value ×1000 = Zb 1.0 + 600.0 × 1000 = 1.666 (Zb) ※ while the value within the stationary range of Zero Band, fixed the Zero Band automatically.
Zdt	0000	Zero Tracking Time Setting (Zdt)	Instruction: 1.If display reach Zb range, the display value will track after this setting. (P.S.: This function must use with Zb together) Range:0~ 99 (sec)
Hb	0000	Input Holding Band Setting (Hb)	Example : (Hb Range: 0~9.999) 1. Input 4-20mA display 0-600.0bar Required stabilized value is 0.5bar Stabilized range is input value ±0.5 bar Calculation: (per mille ↓) Required stabilized value+ Hi input display value ×1000 = Hb 0.5 + 600.0 × 1000 = 0.833 (Hb) ※If display reach input holding band, this display value will stabilize input signal after this setting.
Hdt	0000	Input Holding Time Setting (Hdt)	Instruction: 1. If display reach Hb stabilized tracking range, will track after this setting. (P.S.: This function must use with Hb together) Range: 0~ 99 (sec)
FiLt	0000	Display Filter Setting (FiLt)	1. Example : Range: 0, 1, 2, 5 If setting 1 , digit in ones place display 1,2,3,4(normal display) If setting 2 , digit in ones place display 2,4,6,8(even number display) If setting 5 , digit in ones place display 0,5(multipl display of 5) If setting 0 , digit in ones place display 0(digit in tens)
doFLv	9999	Display Overflow Value Setting (doFLv.)	1. Ex : Display Hi scale is 1000 , Setting 1100 for display overflow. Range: 0~9999 2. Press ENT to save the value and go to the next parameter.
Sqrt	no	Roof Square Function Setting (Sqrt)	1. Ex : Setting YES (open) to open Roof Square Function. Rage: no (do not open), YES (open) 2. Press ENT to save the value and go to the next parameter.

Display	Default	Name	Descriptions
FKEY	AP	Function Key Setting (FKEY)	1. This can modify the function of AZ Key. Range:TEST(panel test)AZ (display reset to Zero), Max (Max hold),HD(date hold) ALrSt(Reset Alarm) 2.Press ENT to save the value and go to next parameter.
SAVE	YES	Save The Status Setting (SAVE)	1. Instruction : Setting YES(open) to save (AZ,MAX,HD) fuctions to EEPROM ※Select NO:This can avoided EEPROM over-write.Range: no(do not open), YES(open) 2. Press ENT to save the value and go to next parameter.
LoCK	no	Key Lock Setting (LoCK)	1. Setting YES to lock all keys (except ENT key) Range: no (do not lock), YES (lock) 2. Press ENT to save the value and go to next parameter.
CodE	0000	Pass Code Setting (CodE)	1. To enter the parameter setting and modify the pass code. Range: 0~9999 (Please do remember new Pass Code)

3.2 ALARM(ROP)SETTING GROUP PROCEDURE

* While pass code is correct,press can select Alarm output setting group.

Display	Default	Name	Descriptions
ACT1	Hi	AL1 Action Setting (ACT1)	1. Instruction : Setting HI higher than Alarm setpoint, setting LO lower than Alarm setpoint. Range: Hi (≥Alarm setpoint on), Lo (< Alarm setpoint on) 2. Press ENT to save the value and go to next parameter.
ACT2	Hi	AL2 Action Setting (ACT2)	1. Instruction : Setting YES to lock alarm and display. Use FKEY (Alarm reset) to reset the Alarm. no(close), Yes (open) 2. Press ENT to save the value and go to next parameter.
LAICH	no	Alarm Action Lock (LAICH)	1. Instruction : Setting YES to lock alarm and display. Use FKEY (Alarm reset) to reset the Alarm. no(close), Yes (open) 2. Press ENT to save the value and go to next parameter.
HYS1	0000	AL1Hysterisis Setting (HYS1)	1. After setting alarm action HI, display must lower than alarm setpoint - HYS to close alarm. 2. After setting alarm action LO, display must higher than alarm setpoint + HYS to close alarm. Range: 0~99
HYS2	0000	AL2Hysterisis Setting (HYS2)	3. Press ENT to save the value and go to next parameter.
dEL1	0000	AL1 RUN Delay Setting (dEL1)	1. Instruction : Setting alarm run delay at 5 sec., While display reach alarm setpoint, the action will be execute after 5 sec. Range: 0~99 (sec)
dEL2	0000	AL2 RUN Delay Setting (dEL2)	2. Press ENT to save the value and go to next parameter.
Sb	0000	AL Start Band Setting (Sb)	1. Instruction : Setting 5 , if display value do not over 5, alarm will not be turned on. Range: -99~99 2. Setting 5 , if display display value higher than 5,alarm will be turn on after Sdt setting This function are use to avoid possible errors caused by high inrush current (starting current)
Sdt	0000	AL start Delay Time Setting (Sdt)	1. If display value reach Alarm Start Band, alarm will be turned on after this setting (sec.) P.S.: this function must use with "Sb" together. Range: 0~99 (sec.) 2. Press ENT to save the value and go to next parameter.