6 DIGITAL MICRO-PROCESS METER with 1~4 ALARMS / ANALOG OUTPUT / RS-485

GA6

■ FEATURES

- Accuracy: ±0.1% F.S. ±1 digit (DC / Potentiometer / Resistor / PT-100 / Load Cell)
  ±0.2% F.S. ±1 digit (AC)
- Measuring AC, DC Voltage / AC, DC Current / Potentiometer / Resistor / PT-100 / Load Cell)
- High brightness dual LED display range: -199999~999999; decimal point selectable
- Baud rate up to 38400 bps; sampling time up to 60 cycles / sec
- Restore factory calibration setting available
- Buzzer / Root square / Analog output simulation function available
- Max. Hold / Data Hold / Reset / 1~4 Alarms (Hi or Lo) programmable / Analog output (15 bit resolution) / RS-485 communication optional (The above options can exist together)
- High stability, non-flammable case (PC), high safety
- CE approval

■ ORDER INFORMATION: GA6 - Code 1 Code 2 - Code 3 - Code 4 Code 5 Code 6

Code 1	Input Type
D	DC
A	AC AVG
M	AC TRMS
P	3 Wire Potentiometer
I	2 Wire Resistor
T	RTD (PT-100)
L	Load Cell
2	2, 3 Wire Sensor
4	4 Wire Sensor

Code 2	Voltage	Code 2	Current	Code 2	Potentiometer	Code 2	Resistor	Code 2	RTD (PT-100)	Code 2	Load Cell
V1	0~50mV	A1	0~20uA	P1	500Ω~10KΩ	I1	0~10Ω	T1	-50~50℃	L1	1mV/V EX.5V
V2	0~5V	A2	0~200uA	P2	10KΩ~100KΩ	I2	0~100Ω	T2	-100~100℃	L2	2mV/V EX.5V
V3	1~5V	A3	0~2mA	P3	100KΩ~1MΩ	I3	0~1KΩ	T3	-200~200℃	L3	3mV/V EX.5V
V4	0~10V	A4	0~20mA	PO	Option	I4	0~10KΩ	T4	0~600℃	L4	1mV/V EX.10V
V5	0~36V	A5	0~200mA			I5	0~100KΩ	TO	Option	L5	2mV/V EX.10V
V6	0~300V	A6	4~20mA			IO	Option			L6	3mV/V EX.10V
V7	0~600V	A7	0~2A							LO	Option
VO	Option	A8	0~5A								
		A9	0~10A								
		AO	Option								

Code 3	Aux. Power
A	AC/DC100~240V
D	AC/DC22~60V

Code 5	Analog Output
N	None
A	4~20mA
V	0~10V
O	Option

Code 4	Alarm Output
N	None
R2	2 Relays
R3	3 Relays
R4	4 Relays
O2	2 Open Collect
O3	3 Open Collect
O4	4 Open Collect

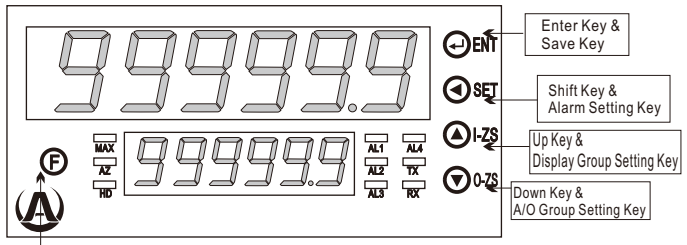
Code 6	RS-485
N	None
Y	Yes

**1: 2 wire type offers excitation power DC24V for 2 wire (Loop Power) pressure, temperature, ,humidity sensors using.
2: Please specify the input signal and display value, inquiry salespersons for special type.
3: Load Cell type of excitation power DC5V can have 2 load cell in parallel; DC10V only can offer 1 load cell to use.
4: 3 Relay type only offers A(NornalOpen) output. O.C. (Open Collect) offers NPN of C.E . output.

■ SPECIFICATION

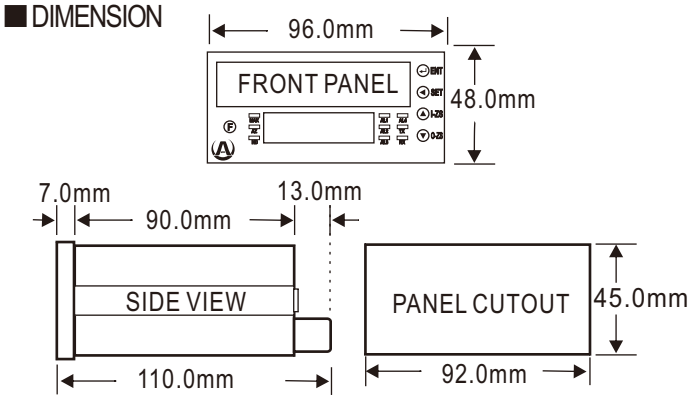
- ♦ Accuracy: ±0.1% F.S. ±1 digit (DC / Potentiometer / Resistor / PT-100 / Load Cell)
  ±0.2% F.S. ±1 digit (AC)
- ♦ Display Screen: 14mm(0.56") red LED;
- ♦ Sampling Time: 60 cycles / sec
- ♦ Display Range: -199999~999999
- ♦ Zero Adjustment: -199999~999999
- ♦ Over Range Indication: doFL / ioFL or -doFL / -ioFL
- ♦ Polarity Indication: Automatic with "-" indication
- ♦ Parameters Setting: Push buttons
- ♦ Back Up Memory: EEPROM
- ♦ Alarm Action: "≧(Hi) on" or "< (Lo) on"
- ♦ Alarm Run Delay Time: 0~99 sec
- ♦ Relay Contact: AC 277V / 7A; DC 30V / 7A
- ♦ Analog Output Resolution: 15 bit
- ♦ Output Response Time: <250 msec (0~90%)
- ♦ Output Capability: Voltage Output: <20mA
  Current Output: <10V
- ♦ Communication: RS-485 Modbus RTU mode
- ♦ Baud Rate: 38400 / 19200 / 9600 / 4800 bps
- ♦ Temperature Coefficient: 100ppm / ℃ (0~60℃)
- ♦ Operating Temperature: 0~60℃
- ♦ Operating Humidity: 20~90% RH (non-condensing)
- ♦ Storage Temperature: -10~70℃
- ♦ Storage Humidity: 20~90% RH (non-condensing)
- ♦ Power Supply: AC/DC 100~240V; AC/DC 22~60V
- ♦ Power Consumption: 8.5VA (all functions output)
- ♦ Surge Test: 1.5KVac / 1min (Input / Power)
- ♦ Input Impendence: Voltage: >2V for 20KΩ / V; ≦2V for >200MΩ
  Current: ≧0.2A at 100mV; <0.2A at 1V

■ FRONT PANEL & KEY FUNCTIONS



AL1: Alarm 1 Indicator TX: Communication Sending Indicator
AL2: Alarm 2 Indicator RX: Communication Reading Indicator
AL3: Alarm 3 Indicator AZ: Display Value Reset Indicator
AL4: Alarm 4 Indicator HD: Data Hold Indicator
MAX BRIGHT: Max. Hold Indicator
MAX DARK: Alarm 1 Setpoint Value Display
MAX FLASH: Simulation Output Value Display

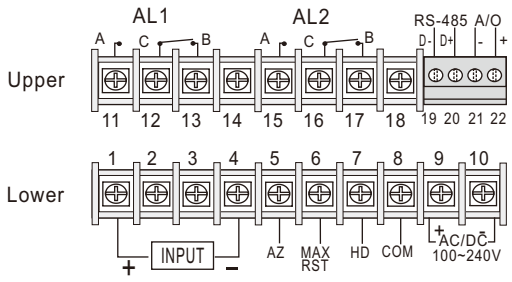
■ DIMENSION



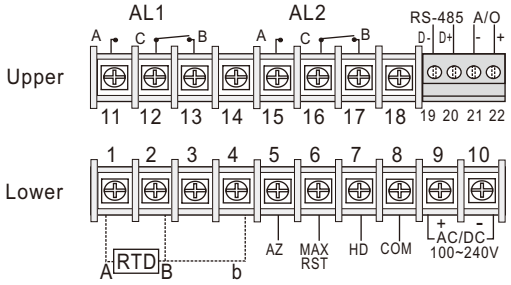
■ WIRING CONNECTION

2 Alarms Output:

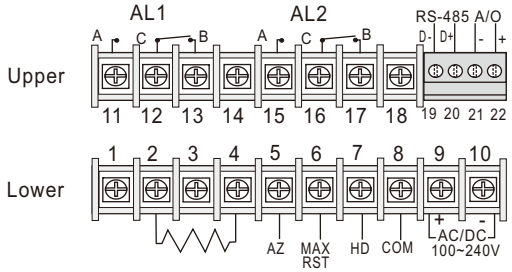
● Voltage, Current (AC, DC)



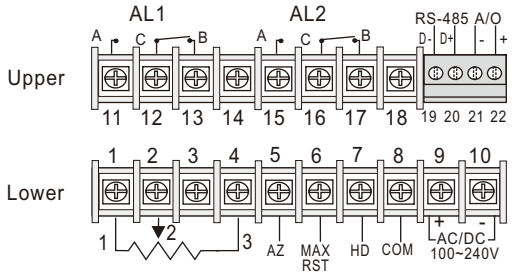
● Temperature (RTD)



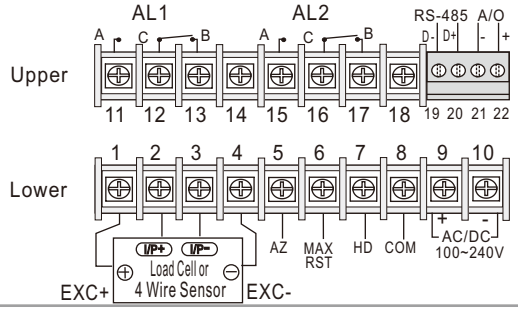
● 2 Wire Resistor



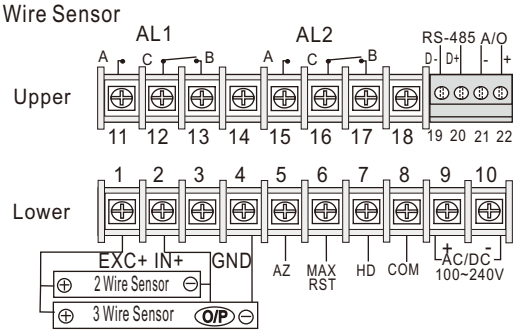
● 3 Wire Petentiometer



● 4 Wire Sensor or Load cell

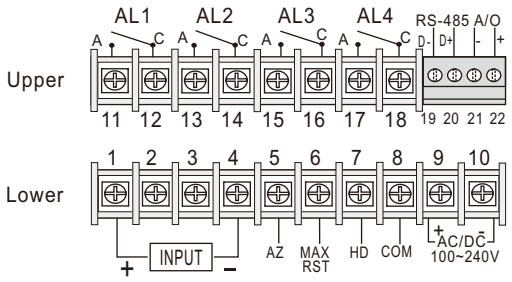


● 2,3 Wire Sensor

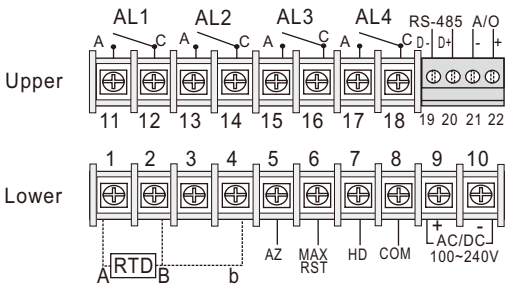


4 Alarms Output:

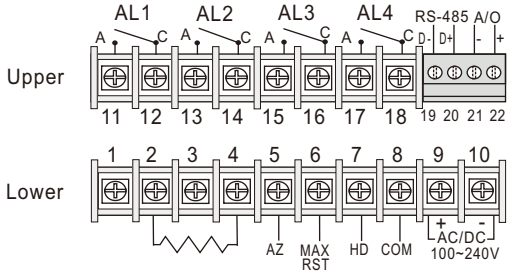
● Voltage, Current (AC, DC)



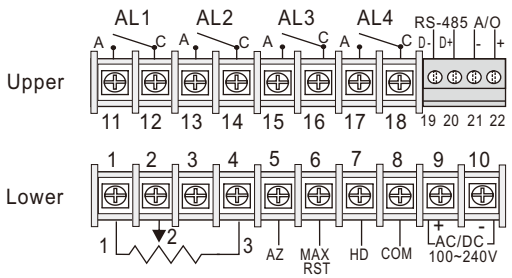
● Temperature (RTD)



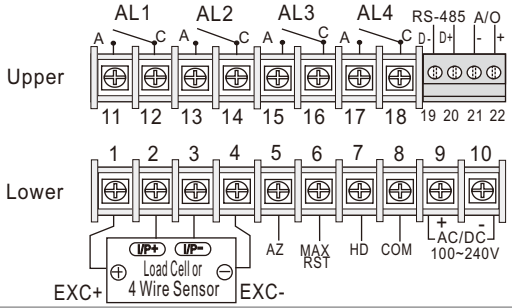
● 2 Wire Resistor



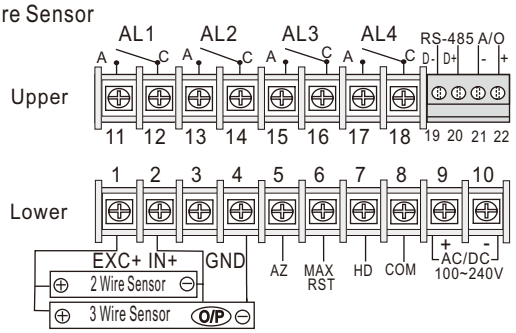
● 3 Wire Petentiometer



● 4 Wire Sensor or Load cell

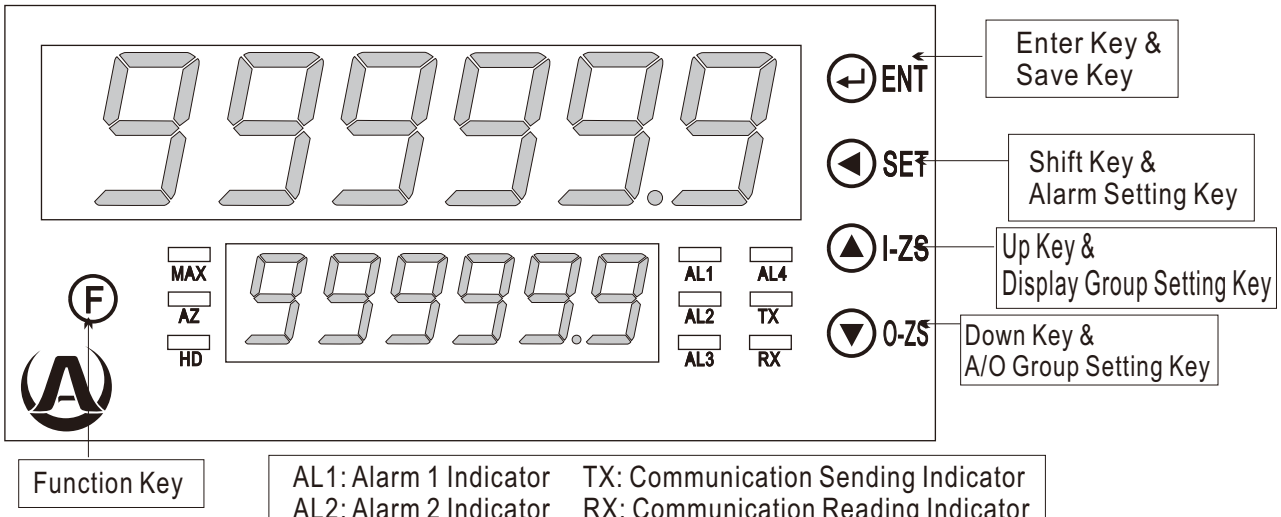


● 2,3 Wire Sensor



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

1.1 FRONT PANEL



AL1: Alarm 1 Indicator TX: Communication Sending Indicator
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AL3: Alarm 3 Indicator AZ: Display Value Reset Indicator
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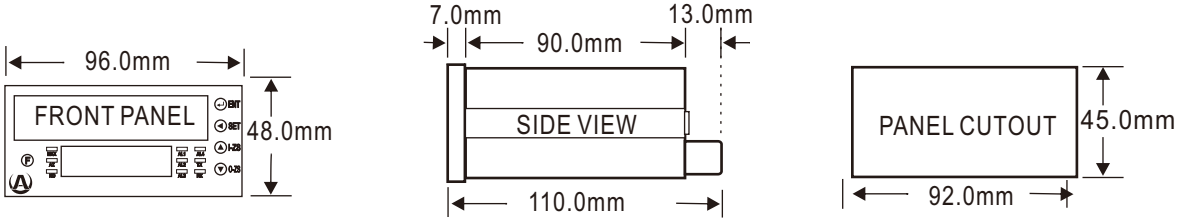
MAX BRIGHT: Max. Hold Indicator
MAX DARK: Alarm 1 Setpoint Value Display
MAX FLASH: Simulation Output Value Display

1.2 KEY FUNCTIONS

Symbol	Key Name	Descriptions
Ⓩ	Function Key	1. In the measuring status, press this key can enable the setting function. (AZ or MrSt or HD)
ENT	Enter Key & Save Key	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.
⇦	Shift Key & Alarm Setting Key	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.
⇩	Down Key & A/O Group Setting Key	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. 2. While the buzzer acts, press this key can mute the buzzer.

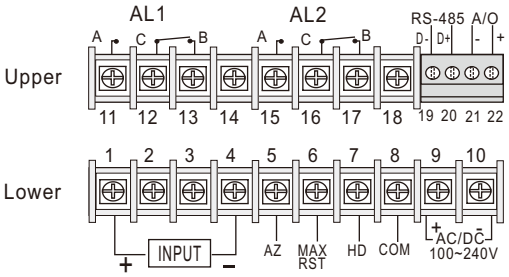
1.3 DIMENSIONS



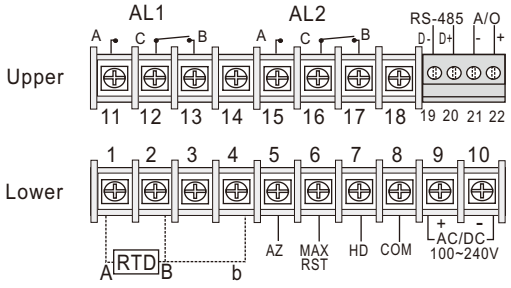
1.4 WIRING CONNECTION

2 Alarms Output:

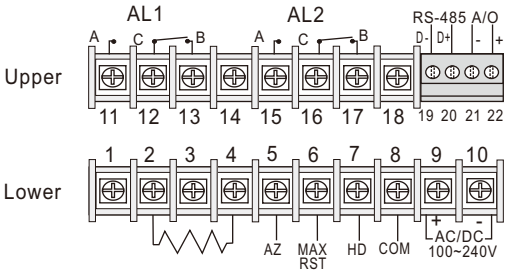
● Voltage, Current (AC, DC)



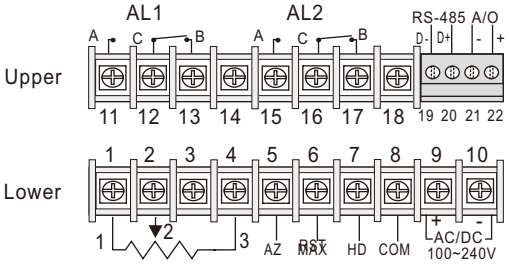
● Temperature (RTD)



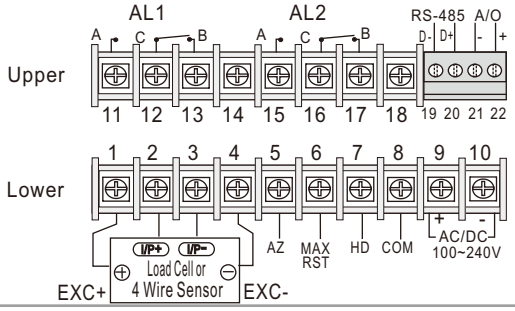
● 2 Wire Resistor



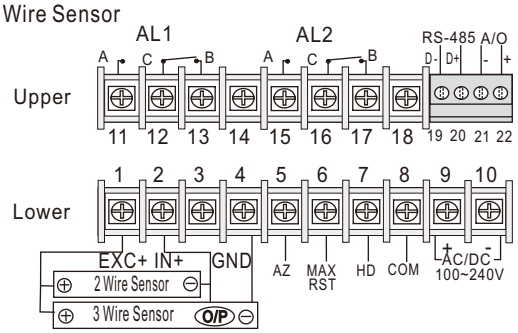
● 3 Wire Petentiometer



● 4 Wire Sensor or Load cell

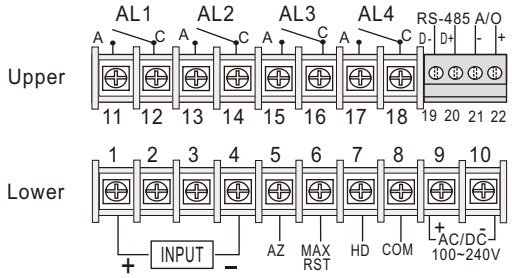


● 2,3 Wire Sensor

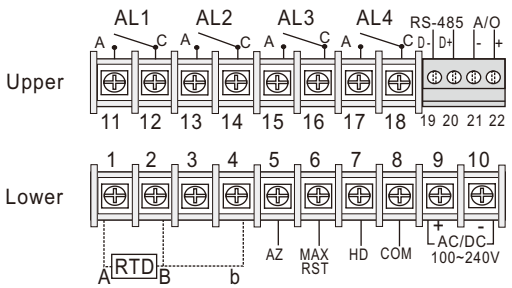


4 Alarms Output:

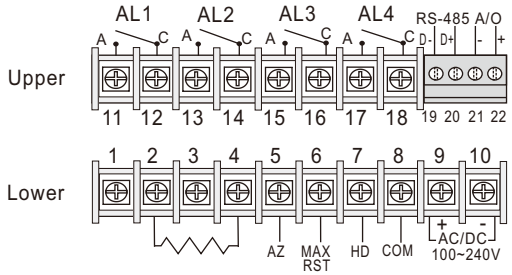
● Voltage, Current (AC, DC)



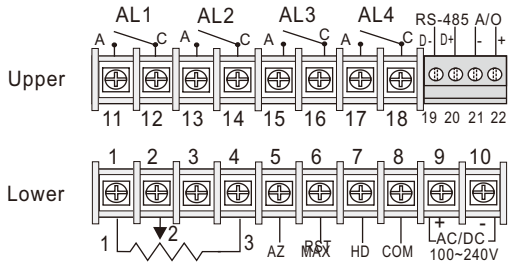
● Temperature (RTD)



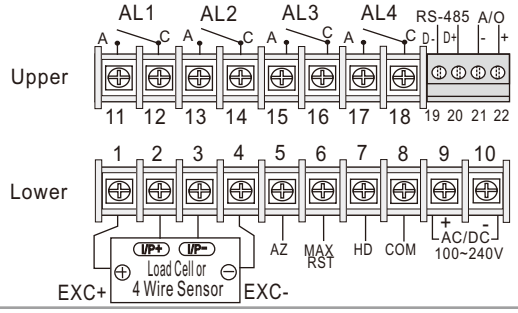
● 2 Wire Resistor



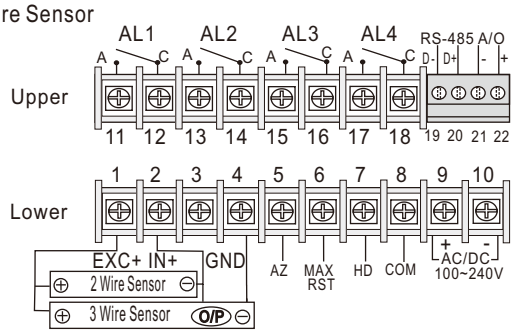
● 3 Wire Petentiometer



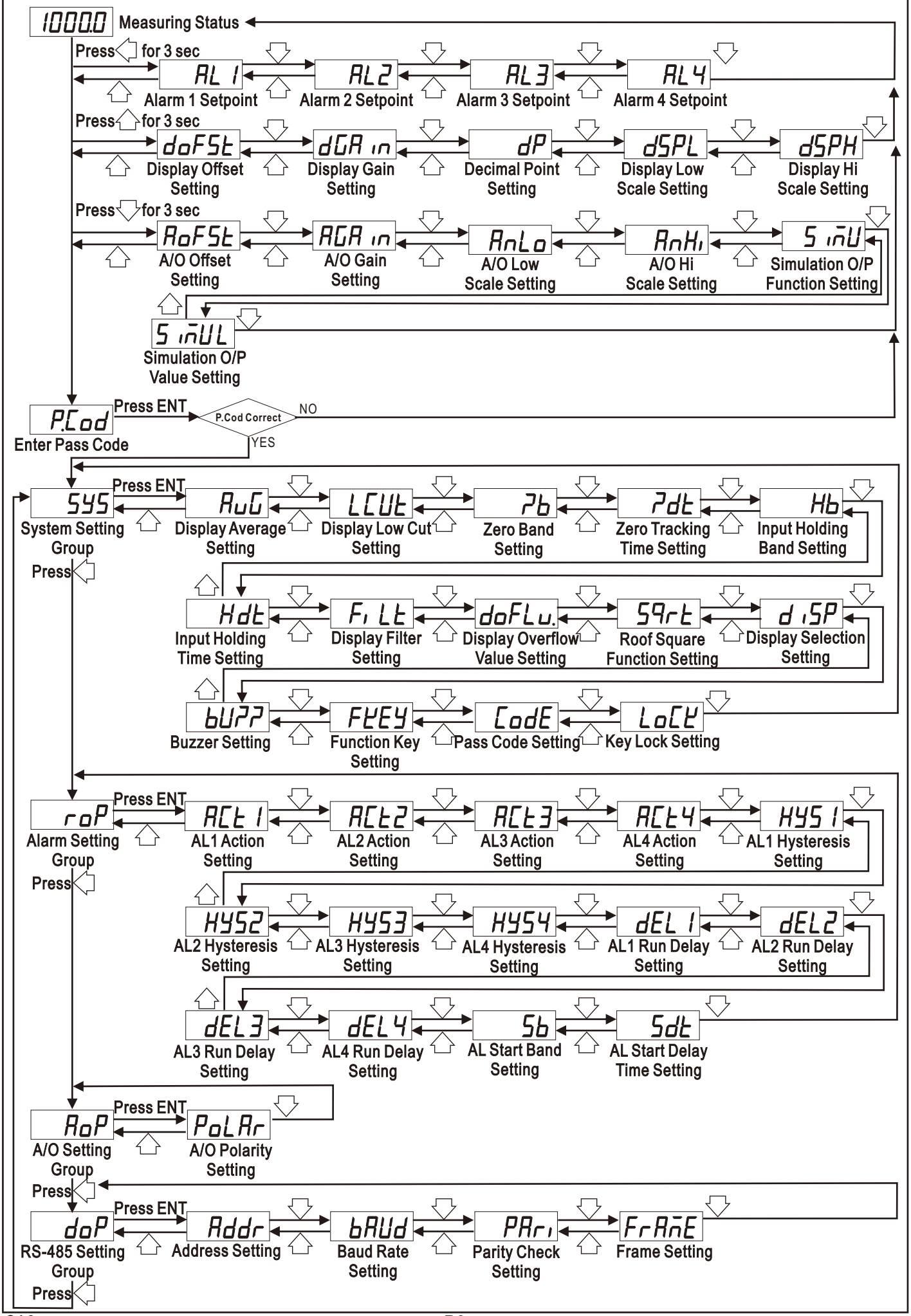
● 4 Wire Sensor or Load cell



● 2,3 Wire Sensor



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
AL 1	00000	Alarm 1 Setpoint (AL1)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify Alarm Setpoint. Range: -199999~999999 3. Press **ENT** to save the value and go to the next parameter.
AL2	00000	Alarm 2 Setpoint (AL2)	
AL3	00000	Alarm 3 Setpoint (AL3)	
AL4	00000	Alarm 4 Setpoint (AL4)	

2.3 DISPLAY SETTING

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

Display	Default	Name	Descriptions
doFSt	00000	Display Offset Setting (doFSt)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify Display Offset. Range: 199999~999999 3. Press **ENT** to save the value and go to the next parameter.
dGAin	00000	Display Gain Setting (dGAin)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify Display Gain. Range: 0.00001~9.99999 Display = dSPH * dGAin 3. Press **ENT** to save the value and go to the next parameter.
dP	00000	Decimal Point Setting (dp)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can select Decimal Point. Range: 0, 1, 2, 3, 4, 5 (DP) 3. Press **ENT** to save the value and go to the next parameter.
dSPL	00000	Display Low Scale Setting (dSPL)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify Display Low Scale. Range: -199999~999999 3. Press **ENT** to save the value and go to the next parameter. **P.S.: Press Z in this page can calibrate Zero Point of input signal.**
dSPH	99999	Display Hi Scale Setting (dSPH)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify Display Hi Scale. Range: -199999~999999 3. Press **ENT** to save the value and back to Display Setting. **P.S.: Press Z in this page can calibrate Span Point of input signal.**

2.4 A/O SETTING

* In the measuring status, press ▽ for 3 sec can enter to A/O Group Setting.

Display	Default	Name	Descriptions
AoFSt	00000	A/O Offset Setting (AoFSt)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify A/O Offset. Range: -9999~9999 3. Press **ENT** to save the value and go to the next parameter.
AGAin	00000	A/O Gain Setting (AGAin)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify A/O Gain. Range: -9999~9999 3. Press **ENT** to save the value and go to the next parameter.

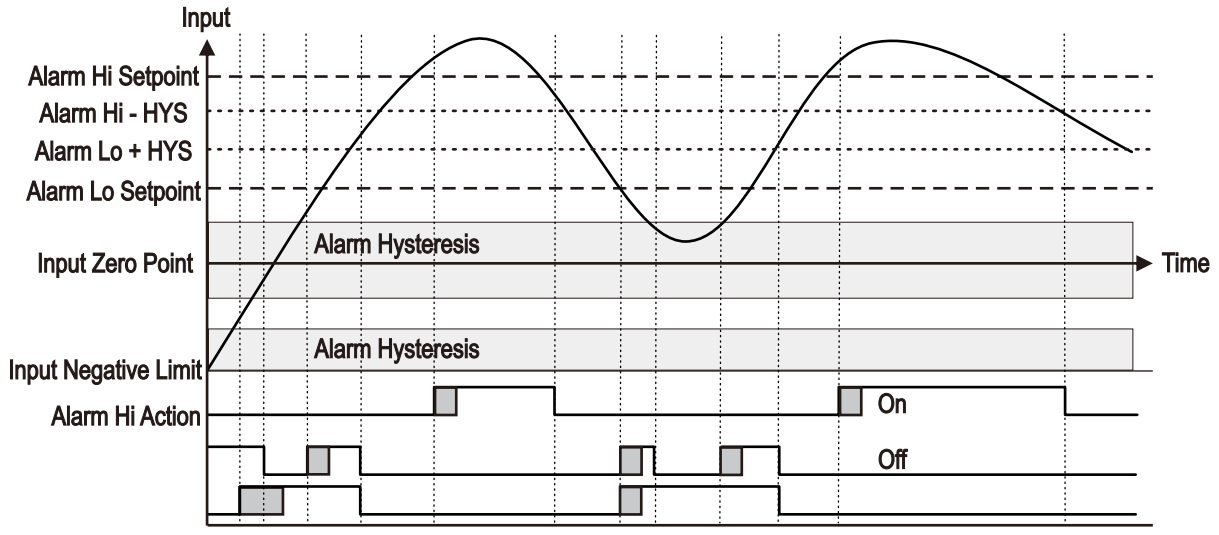
Display	Default	Name	Descriptions
AnLo	00000	A/O Low Scale Setting (AnLo)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify A/O Low Scale. Range: -199999~999999 If this value is 0, while display is 0, output signal will be 4 mAdc. 3. Press **ENT** to save the value and go to the next parameter.
AnHi	99999	A/O Hi Scale Setting (AnHi)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify A/O Hi Scale. Range: -199999~999999 If this value is 100, while display is 100, output signal will be 20 mAdc. 3. Press **ENT** to save the value and go to the next parameter.
SiMU	no	Simulation O/P Function Setting (SiMU)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can select Simulation O/P Function. Range: no (do not open), YES (open) 3. Press **ENT** to save the value and go to the next parameter.
SiMUL	99999	Simulation O/P Value Setting (SiMUL)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify Simulation O/P Value. Range: -199999~999999 3. Press **ENT** to save the value and back to A/O Setting.

2.5 ERROR CODE OF SELF-DIAGNOSIS

Display	Descriptions
ioFL	Input signal is over 120% of input range.
-ioFL	Input signal is under -10% of input range.
AdEr	Input signal is over 180% of input ragne or meter error.
doFL	Input signal is over display range (999999).
-doFL	Input signal is under display range (-199999).
E-oo	EEPROM reading / writing suffers the interference (about 1 million times).

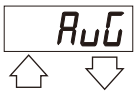
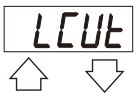
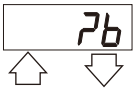
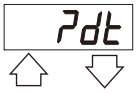
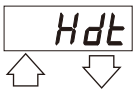
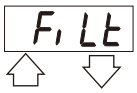
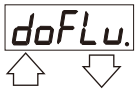
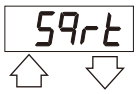
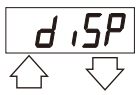
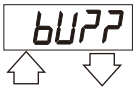
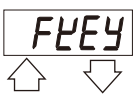
** Please check the wiring connection is correct first, if the problem still exist, please return the meter to the factory.

2.6 ALARM OUTPUT ACTION SEQUENCE



3.1 SYSTEM (SYS) SETTING GROUP PROCEDURE

* While Pass Code is correct, Press ◁ can select System Setting Group.

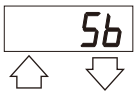
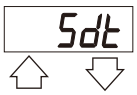
Display	Default	Name	Descriptions
	00005	Display Average Setting (AvG)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify Display Average. Range: 1~99 If this value is large, display will be stable & smooth. 3. Press **ENT** to save the value and go to the next parameter.
	00000	Display Low Cut Setting (LCUt)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify Display Low Cut. Range: 0~9999 If this value is 10, while display is under 10, display value will show 0. 3. Press **ENT** to save the value and go to the next parameter.
	00000	Zero Band Setting (Zb)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify Zero Band. Range: 0~99 (If "dSPH" ≧65536, this value will be multiply by 100) If display reach this value, the display value will track 0. 3. Press **ENT** to save the value and go to the next parameter.
	00000	Zero Tracking Time Setting (Zdt)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify Zero Tracking Time. Range: 0~99 (sec) If display reach Zero Band, the display value will track 0 after this setting (sec). P.S.: This function must use with "Zb" together. 3. Press **ENT** to save the value and go to the next parameter.
	00000	Input Holding Band Setting (Hb)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify Input Holding Band. Range: 0~99 (If "dSPH" ≧65536, this value will be multiply by 100) If display reach this value, the display value will stabilize input signal. 3. Press **ENT** to save the value and go to the next parameter.
	00000	Input Holding Time Setting (Hdt)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify Input Holding Time. Range: 0~99 (sec) If display reach Input Holding Band, the display value will stabilize input signal after this setting (sec). P.S.: This function must use with "Hb" together. 3. Press **ENT** to save the value and go to the next parameter.
	00000	Display Filter Setting (FiLt)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can select Display Filter. Range: 0, 1, 2, 5 3. Press **ENT** to save the value and go to the next parameter.
	00000	Display Overflow Value Setting (doFLv.)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can select Display Overflow Value. Range: 0~99999 3. Press **ENT** to save the value and go to the next parameter.
	no	Roof Square Function Setting (Sqrt)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can open Roof Square Function. Range: no (Do Not Open), YES (Open) 3. Press **ENT** to save the value and go to the next parameter.
	AL 1	Display Selection Setting (diSP)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can select lower Display Selection. Range: AL1 (Alarm1 Setpoint), MAX (Max Hold), SiMUL (A/O Simulation value) 3. Press **ENT** to save the value and go to the next parameter.
	no	Buzzer Setting (bUZZ)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can close Buzzer. Range: no (Do Not Close), YES (Close) 3. Press **ENT** to save the value and go to the next parameter.
	AZ	Function Key Setting (FKEY)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can select Function Key. Range: AZ (Display Reset to Zero), MrSt (Max Hold Reset), 3. Press **ENT** to save the value and go to the next parameter.

Display	Default	Name	Descriptions
CodE	00000	Pass Code Setting (P.Cod)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify Pass Code. Range:0~19999 (Please do remember new Pass Code) 3. Press **ENT** to save the value and go to the next parameter.
LoCK	no	Key Lock Setting (LoCK)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can close Key Lock. Range: no (Do Not Close), YES (Close) 3. Press **ENT** to save the value and back to System Setting Group.

3.2 ALARM (roP) SETTING GROUP PROCEDURE

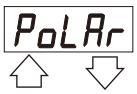
* While Pass Code is correct, Press ◁ can select Alarm Output Setting Group.

Display	Default	Name	Descriptions
ACt1	Hi	AL1 Action Setting (ACt1)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can select Alarm Action. Range: Hi (≧Alarm Setpoint On), Lo (< Alarm Setpoint On) 3. Press **ENT** to save the value and back to A/O Group Setting.
ACt2	Hi	AL2 Action Setting (ACt2)	
ACt3	Hi	AL3 Action Setting (ACt3)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can select Alarm Action. Range: Hi (≧Alarm Setpoint On), Lo (< Alarm Setpoint On) Go (< Hi Setpoint & > Lo Setpoint On) 3. Press **ENT** to save the value and go to the next parameter.
ACt4	Hi	AL4 Action Setting (ACt4)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can select Alarm Action. Range: Hi (≧Alarm Setpoint On), Lo (< Alarm Setpoint On) Error (Device error On) 3. Press **ENT** to save the value and go to the next parameter.
HYS1	00000	AL1 Hysteresis Setting (HYS1)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify Alarm Hysteresis. Range: 0~9999 Alarm will be turned off while display value is higher or lower (depends on Alarm Action) Alarm Setpoint +/- Hysteresis. 3. Press **ENT** to save the value and go to the next parameter.
HYS2	00000	AL2 Hysteresis Setting (HSY2)	
HYS3	00000	AL3 Hysteresis Setting (HYS3)	
HYS4	00000	AL4 Hysteresis Setting (HYS4)	
dEL1	00000	AL1 Run Delay Setting (dEL1)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify Alarm Run Delay. Range: 0~99 (sec) Alarm will be turned on after this setting (sec). 3. Press **ENT** to save the value and go to the next parameter.
dEL2	00000	AL2 Run Delay Setting (dEL2)	
dEL3	00000	AL3 Run Delay Setting (dEL3)	
dEL4	00000	AL4 Run Delay Setting (dEL4)	

Display	Default	Name	Descriptions
	00000	AL Start Band Setting (Sb)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify Alarm Start Band. Range: -99~99 If display value do not over this setting, alarm will not be turned on. 3. Press **ENT** to save the value and go to the next parameter.
	00000	AL Start Delay Time Setting (Sdt)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify Alarm Start Delay Time. Range: 0~99 (sec) 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. 3. Press **ENT** to save the value and back to Alarm Setting Group.

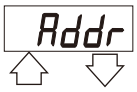
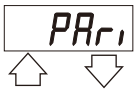
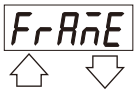
3.3 A/O (AoP) SETTING GROUP PROCEDURE

* While Pass Code is correct, Press ◁ can select A/O Setting Group.

Display	Default	Name	Descriptions
	no	A/O Polarity Setting (PoLAr)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can select A/O Polarity. Range: no (Positive Pole O/P; 0~10 Vdc), YES (Positive & Negative Pole O/P; -10~+10 Vdc) 3. Press **ENT** to save the value and back to A/O Setting Group.

3.4 RS-485 (doP) SETTING GROUP PROCEDURE

* While Pass Code is correct, Press ◁ can select RS-485 Setting Group.

Display	Default	Name	Descriptions
	00000	Address Setting (Addr)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can modify Address. Range: 0~255 3. Press **ENT** to save the value and go to the next parameter.
	38400	Baud Rate Setting (bAUd)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can select Baud Rate. Range: 38400, 19200, 9600, 4800 (bps) 3. Press **ENT** to save the value and go to the next parameter.
	n.8.2.	Parity Check Setting (PAri)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can select Parity Check. Range: n.8.2., n.8.1., EvEn, odd 3. Press **ENT** to save the value and go to the next parameter.
	no	Frame Setting (FrAME)	1. Press ◁ to enter the parameter setting, the digit will be flashed. 2. Press △ or ▽ can select Frame. Range: no (Hi to Lo), YES (Lo to Hi) 3. Press **ENT** to save the value and back to RS-485 Setting Group.

4.1 MODBUS RTU MODE PROTOCOL ADDRESS TABLE

* Data form: 16 / 32 bit, +/-8000~7FFF(-32768~32767), 800000007FFFFFFF(-2147483648~2147483647)

Modbus	Hex	Name	Act	Descriptions
40001	0000	ID	R	Model number identification; GA6 is 23H
40002	0001	STATUS	R	Current alarm output & external control input status, range: 0000~00F0 (0~240) (Bit 7: AL4, Bit 6: AL3, Bit 5: AL2, Bit 4: AL1, Bit 3: Buzz, Bit 2: HD, Bit 1: MAX, Bit 0: AZ) 0:Off, 1:On
40003	0002	INDEX	R/W	Index, range: 0000~0037 (0~55) [Please refer section 4.2 for detail.]
40004	0003			
40005	0004	FKEY	R/W	Function key setting, range: 0000~0002 (0~2); 0:AZ, 1:MrSt, 2:Hd
40006	0005	SIMU	R/W	Simulation function O/P setting, range: 0000~0001 (0~1); 0:No, 1:YES
40007	0006	SQRT	R/W	Roof square function setting, range: 0000~0001 (0~1); 0:No, 1:YES
40008	0007	POLAR	R/W	Polar setting, range: 0000~0001 (0~1); 0:No, 1:YES
40009	0008	DISP	R/W	Display selection setting, range: 0000~0001 (0~2); 0:AL1, 1:MAX, 2:SiMUL
40010	0009	FILT	R/W	Display Filter setting, range: 0000~0003 (0~3); 0:0, 1:1, 2:2, 3:5
40011	000A	FRAME	R/W	Frame setting, range: 0000~0001 (0~1); 0:No, 1:YES
40012	000B	LOCK	R/W	Key lock setting, range: 0000~0001 (0~1); 0:No, 1:YES
40013	000C	ACT1	R/W	Alarm 1 action setting, range: 0000~0001 (0~1); 0:Hi, 1:Lo
40014	000D	ACT2	R/W	Alarm 2 action setting, range: 0000~0001 (0~1); 0:Hi, 1:Lo
40015	000E	ACT3	R/W	Alarm 3 action setting, range: 0000~0001 (0~2); 0:Hi, 1:Lo, 2:Go
40016	000F	ACT4	R/W	Alarm 4 action setting, range: 0000~0001 (0~2); 0:Hi, 1:Lo, 2:Error
40017	0010	BUZZ	R/W	Buzzer setting, range: 0000~0001 (0~1); 0:No, 1:YES
40018	0011	DP	R/W	Decimal point setting, range: 0000~0005 (0~5); 0:10^{0}, 1:10^{-1}, 2:10^{-2}, 3:10^{-3}, 4:10^{-4}, 5:10^{-5}
40019	0012	BAUD	R/W	Baud rate setting, range: 0000~0003 (0~3); 0:38400, 1:19200, 2:9600, 3:4800
40020	0013	PARI	R/W	Parity check setting, range: 0000~0003 (0~3); 0:n.8.2., 1:n.8.1., 2:EvEn, 3:odd
40021	0014	AVG	R/W	Display average setting, range: 0001~0063 (1~99)
40022	0015	ADDR	R/W	Address setting, range: 0000~00FF (0~255)
40023	0016	DEL1	R/W	Alarm 1 run delay setting, range: 0000~0063 (0~99)
40024	0017	DEL2	R/W	Alarm 2 run delay setting, range: 0000~0063 (0~99)
40025	0018	DEL3	R/W	Alarm 3 run delay setting, range: 0000~0063 (0~99)
40026	0019	DEL4	R/W	Alarm 4 run delay setting, range: 0000~0063 (0~99)
40027	001A	SB	R/W	Alarm start band setting, range: FF9D~0063 (-99~99)
40028	001B	SDT	R/W	Alarm start delay time setting, range: 0000~0063 (0~99)
40029	001C	ZB	R/W	Zero band setting, range: 0000~0063 (0~99)
40030	001D	ZDT	R/W	Zero tracking time setting, range: 0000~0063 (0~99)
40031	001E	HB	R/W	Input holding band setting, range: 0000~0063 (0~99)
40032	001F	HDT	R/W	Input holding time setting, range: 0000~0063 (0~99)
40033	0020	LCUT	R/W	Display low cut setting, range: 0000~270F (0~9999)
40034	0021	HYS1	R/W	Alarm 1 hysteresis setting, range: 0000~270F (0~9999)
40035	0022	HYS2	R/W	Alarm 2 hysteresis setting, range: 0000~270F (0~9999)
40036	0023	HYS3	R/W	Alarm 3 hysteresis setting, range: 0000~270F (0~9999)
40037	0024	HYS4	R/W	Alarm 4 hysteresis setting, range: 0000~270F (0~9999)
40038	0025	CODE	R/W	Pass code setting, range: 0000~4E1F (0~19999)
40039	0026	AOFST	R/W	A/O offset setting, range: D8F1~270F (-9999~9999)
40040	0027	AGAIN	R/W	A/O gain setting, range: D8F1~270F (-9999~9999)
40041	0028	AZERO	R/W	A/O zero adjustment, range: D8F1~270F (-9999~9999)
40042	0029	ASPAN	R/W	A/O span adjustment, range: D8F1~270F (-9999~9999)
40043	002A	ANLO	R/W	A/O low scale setting, range: FFFCF2C1~000F423F (-199999~999999) Hi Bit
40044	002B		R/W	A/O low scale setting, range: FFFCF2C1~000F423F (-199999~999999) Lo Bit
40045	002C	ANHI	R/W	A/O hi scale setting, range: FFFCF2C1~000F423F (-199999~999999) Hi Bit
40046	002D		R/W	A/O hi scale setting, range: FFFCF2C1~000F423F (-199999~999999) Lo Bit
40047	002E	DSPL	R/W	Display low scale setting, range: FFFCF2C1~000F423F (-199999~999999) Hi Bit
40048	002F		R/W	Display low scale setting, range: FFFCF2C1~000F423F (-199999~999999) Lo Bit
40049	0030	DSPH	R/W	Display hi scale setting, range: FFFCF2C1~000F423F (-199999~999999) Hi Bit

Modbus	Hex	Name	Act	Descriptions
40050	0031		R/W	Display hi scale setting, range: FFFCF2C1~000F423F (-199999~999999) Lo Bit
40051	0032	DOFST	R/W	Display Offset setting, range: FFFCF2C1~000F423F (-199999~999999) Hi Bit
40052	0033		R/W	Display Offset setting, range: FFFCF2C1~000F423F (-199999~999999) Lo Bit
40053	0034	DGAIN	R/W	Display gain setting, range: 00000001~000F423F (1~999999) Hi Bit
40054	0035		R/W	Display gain setting, range: 00000001~000F423F (1~999999) Lo Bit
40055	0036	DOFLV.	R/W	Display Overflow Value setting, range: 00000000~000F423F (0~999999) Hi Bit
40056	0037		R/W	Display Overflow Value setting, range: 00000000~000F423F (0~999999) Lo Bit
40057	0038	SIMUL	R/W	Simulation O/P setting, range: FFFCF2C1~000F423F (-199999~999999) Hi Bit
40058	0039		R/W	Simulation O/P setting, range: FFFCF2C1~000F423F (-199999~999999) Lo Bit
40059	003A	AL1	R/W	Alarm 1 setpoint setting, range: FFFCF2C1~000F423F (-199999~999999) Hi Bit
40060	003B		R/W	Alarm 1 setpoint setting, range: FFFCF2C1~000F423F (-199999~999999) Lo Bit
40061	003C	AL2	R/W	Alarm 2 setpoint setting, range: FFFCF2C1~000F423F (-199999~999999) Hi Bit
40062	003D		R/W	Alarm 2 setpoint setting, range: FFFCF2C1~000F423F (-199999~999999) Lo Bit
40063	003E	AL3	R/W	Alarm 3 setpoint setting, range: FFFCF2C1~000F423F (-199999~999999) Hi Bit
40064	003F		R/W	Alarm 3 setpoint setting, range: FFFCF2C1~000F423F (-199999~999999) Lo Bit
40065	0040	AL4	R/W	Alarm 4 setpoint setting, range: FFFCF2C1~000F423F (-199999~999999) Hi Bit
40066	0041		R/W	Alarm 4 setpoint setting, range: FFFCF2C1~000F423F (-199999~999999) Lo Bit
40067	0042	RATE	R	Current display value, range: FFFCF2C1~000F423F (-199999~999999) Hi Bit
40068	0043		R	Current display value, range: FFFCF2C1~000F423F (-199999~999999) Lo Bit
40069	0044	MAX	R/W	Max hold, range: FFFCF2C1~000F423F (-199999~999999) Hi Bit
40070	0045		R/W	Max hold, range: FFFCF2C1~000F423F (-199999~999999) Lo Bit
40071	0046	HD	R/W	Data hold, range: FFFCF2C1~000F423F (-199999~999999) Hi Bit
40072	0047		R/W	Data hold, range: FFFCF2C1~000F423F (-199999~999999) Lo Bit
40073	0048	AZ	R/W	Display Zeroed, range: FFFCF2C1~000F423F (-199999~999999) Hi Bit
40074	0049		R/W	Display Zeroed, range: FFFCF2C1~000F423F (-199999~999999) Lo Bit

4.2 INDEX CODE SUPPLEMENT

* The following codes are for hexadecimal.

Page / Name	Page / Name	Page / Name	Page / Name	Page / Name
00: SYS	01: roP	02: AoP	03: doP	04: P.Cod
05: E-00	06:	07: FKEY	08: SiMU	09: Sqrt
0A: PoLAr	0B: FiLt	0C: diSP	0D: FrAME	0E: LoCK
0F: ACt1	10: ACt2	11: ACt3	12: ACt4	13: bUZZ
14: dP	15: bAUd	16: PAri	17: AvG	18: Addr
19: dEL1	1A: dEL2	1B: dEL3	1C: dEL4	1D: Sb
1E: Sdt	1F: Zb	20: Zdt	21: Hb	22: Hdt
23: LCUt	24: HYS1	25: HYS2	26: HYS3	27: HYS4
28: CodE	29: AoFSt	2A: AGAin	2B: AZEro	2C: ASPAn
2D: AnLo	2E: AnHi	2F: dSPL	30: dSPH	31: doFSt
32: dGAin	33: doFLv.	34: SiMUL	35: AL1	36: AL2
37: AL3	38: AL4	39: Current Display		