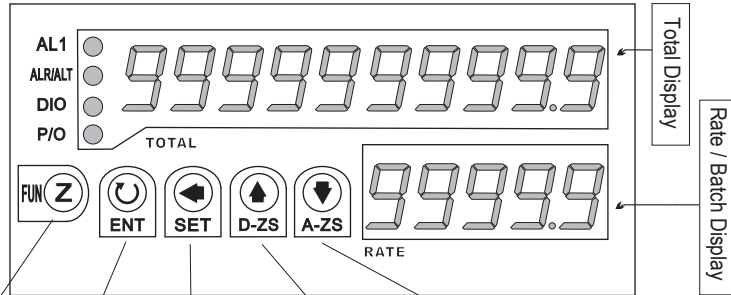
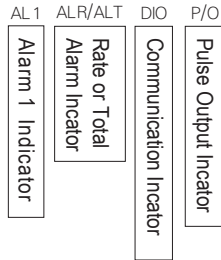


## KEY FUNCTIONS

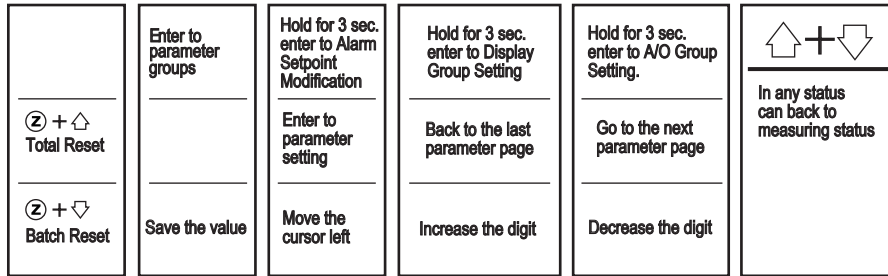


Function Key    Enter Key & Save Key    Shift Key & Alarm Setting Key    Up Key & Display Setting Key    Down Key & A/O Setting Key

Measuring Status

Parameter Page

Parameter Setting



## WIRING CONNECTION

## Output Function

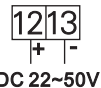
- A/O Output
- RS-485 Output
- AC Power
- DC Power



A/O

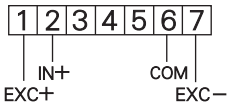


RS-485

AC/DC  
100~240V

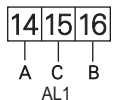
DC 22~50V

## Input Function

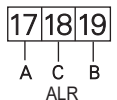


## Relay Function

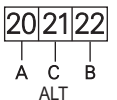
- Relay x1-3
- Relay x4 Relay x3, Pulse Output



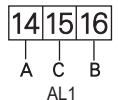
AL1



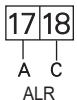
ALR



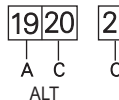
ALT



AL1



ALR

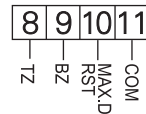


ALT

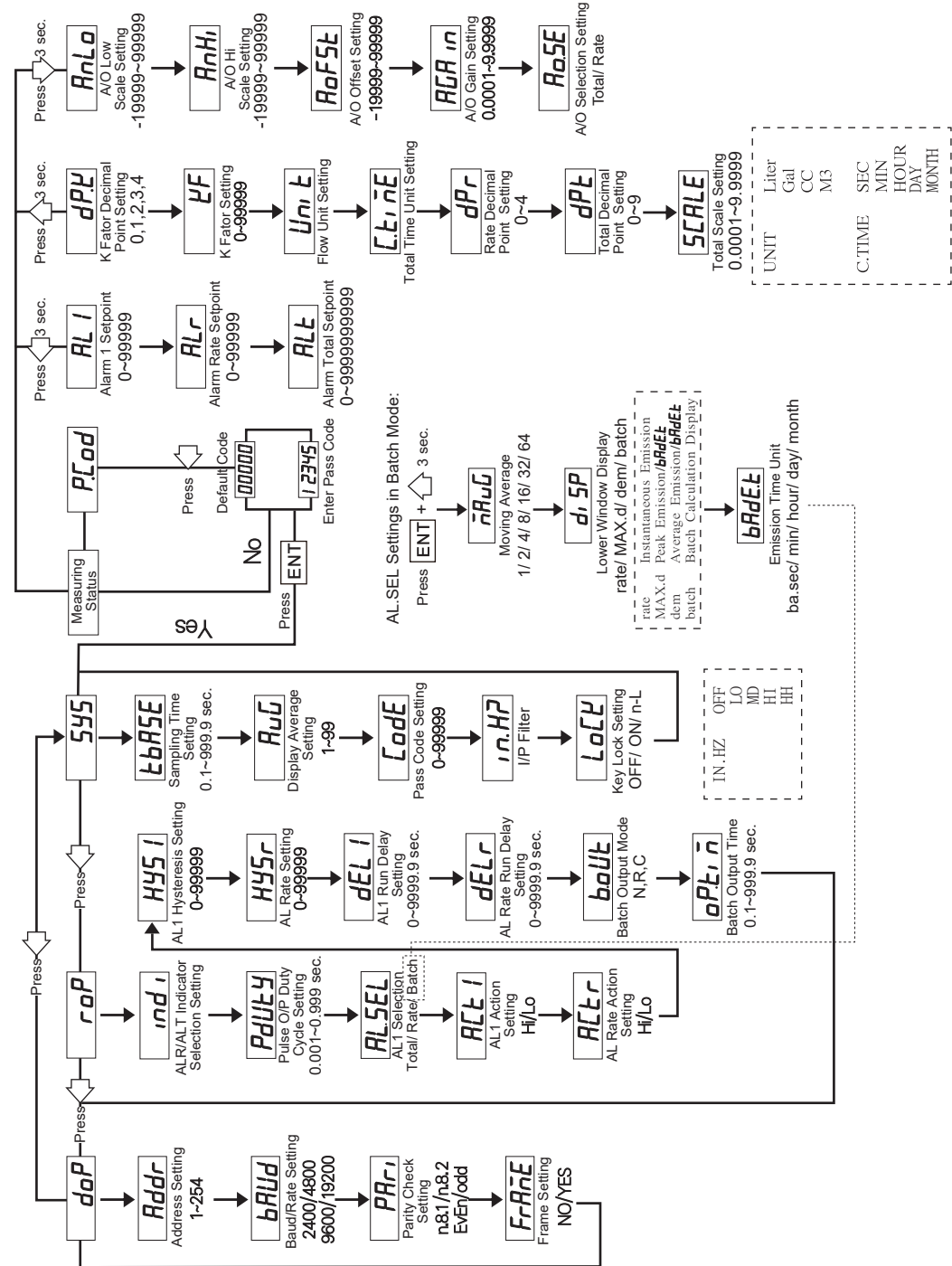


P/O

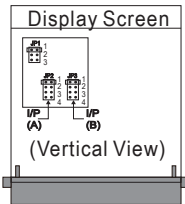
## External Control Function



## Programming Mode Operating Procedures



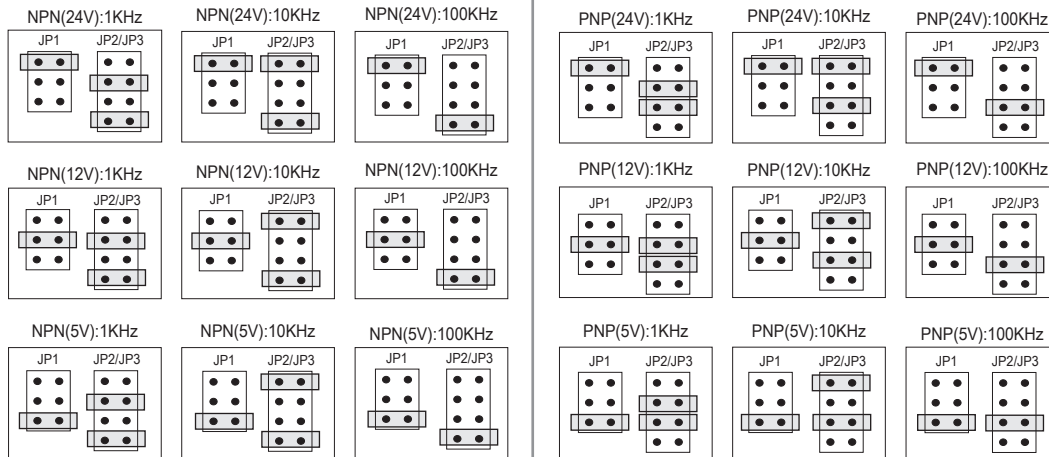
## Input Signal Modification



\*\*To Select the pin to modify the input signal for different sensors.  
PS: In dual input type, excitation power must be the same.

| JP1 | JUMPER | DEFINITION |
|-----|--------|------------|
|     | 1      | Close: 24V |
|     | 2      | Close: 12V |
|     | 3      | Close: 5V  |

| JP2/JP3 | JUMPER | DEFINITION            |
|---------|--------|-----------------------|
|         | 1      | Close: 10KHz          |
|         | 2      | Open: 100KHz          |
|         | 3      | Open: NPN; Close: PNP |
|         | 4      | Open: PNP; Close: NPN |



## ERROR CODE OF SELF-DIAGNOSIS

|             |                                                                             |
|-------------|-----------------------------------------------------------------------------|
| <b>ioFL</b> | Input signal is over 120% of input range.                                   |
| <b>doFL</b> | Input signal is over display range (999999).                                |
| <b>E-oo</b> | EEPROM reading / writing suffers the interference ( about 1 million times). |

## Modbus RTU Mode Protocol Address Table

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

| Modbus | Hex  | Name   | Act | Discriptions                                                                                                                                                                                                                                             |
|--------|------|--------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 40002  | 0001 | STATUS | R   | Current alarm output & external control input status, range: 0000~00F0 (0~240)<br>(Bit 7: P/O, Bit 6: ALT, Bit 5: ALR, Bit 4: AL1) 0:Off, 1:On                                                                                                           |
| 40005  | 0004 | BAUD   | R/W | Baud rate setting; range: 0000~0003 (0~3) 0:2400, 1:4800, 2:9600, 3:19200                                                                                                                                                                                |
| 40006  | 0005 | PARI   | R/W | Parity setting; range: 0000~0003 (0~3), 0:N.8.1., 1:N.8.2., 2:EVEN, 3:ODD                                                                                                                                                                                |
| 40007  | 0006 | AVG    | R/W | Display average setting; range: 0001~0063 (1~99)                                                                                                                                                                                                         |
| 40008  | 0007 |        |     |                                                                                                                                                                                                                                                          |
| 40009  | 0008 | ADDR   | R/W | Address setting; range: 0000~00FF (1~254)                                                                                                                                                                                                                |
| 40019  | 0012 | CODE   | R/W | Pass code setting; range: 00000000~0001869F (0~99999) Hi Bit                                                                                                                                                                                             |
| 40020  | 0013 |        | R/W | Pass code setting; range: 00000000~0001869F (0~99999) Low Bit                                                                                                                                                                                            |
| 40021  | 0014 | DPK    | R/W | K factor decimal point setting, range: 0000~0004 (0~4);<br>0:10 <sup>1</sup> , 1:10 <sup>2</sup> , 2:10 <sup>3</sup> , 3:10 <sup>4</sup> , 4:10 <sup>5</sup>                                                                                             |
| 40022  | 0015 | DPR    | R/W | Rate decimal point setting, range: 0000~0004 (0~4);<br>0:10 <sup>1</sup> , 1:10 <sup>2</sup> , 2:10 <sup>3</sup> , 3:10 <sup>4</sup> , 4:10 <sup>5</sup>                                                                                                 |
| 40023  | 0016 | DPT    | R/W | Decimal point setting, range: 0000~0009 (0~9);<br>0:10 <sup>1</sup> , 1:10 <sup>2</sup> , 2:10 <sup>3</sup> , 3:10 <sup>4</sup> , 4:10 <sup>5</sup> , 5:10 <sup>6</sup> , 6:10 <sup>7</sup> , 7:10 <sup>8</sup> , 8:10 <sup>9</sup> , 9:10 <sup>10</sup> |
| 40024  | 0017 | KF     | R/W | K factor setting, range: 00000001~0001869F (1~99999) Hi Bit                                                                                                                                                                                              |
| 40025  | 0018 |        | R/W | K factor setting, range: 00000001~0001869F (1~99999) Low Bit                                                                                                                                                                                             |
| 40039  | 0026 | ALR    | R/W | Rate alarm setting, range: 00000000~0001869F (0~99999) hi Bit                                                                                                                                                                                            |
| 40040  | 0027 |        | R/W | Rate alarm setting, range: 00000000~0001869F (0~99999) Low Bit                                                                                                                                                                                           |
| 40041  | 0028 | AL1    | R/W | Alarm 1, range: 0000000000000000~00000002540BE3FF (0~999999999)                                                                                                                                                                                          |
| 40042  | 0029 |        | R/W | Alarm 1, range: 0000000000000000~00000002540BE3FF (0~999999999)                                                                                                                                                                                          |
| 40043  | 002A |        | R/W | Alarm 1, range: 0000000000000000~00000002540BE3FF (0~999999999)                                                                                                                                                                                          |
| 40044  | 002B |        | R/W | Alarm 1, range: 0000000000000000~00000002540BE3FF (0~999999999)                                                                                                                                                                                          |
| 40045  | 002C | ALT    | R/W | Total alarm, range: 0000000000000000~00000002540BE3FF (0~999999999)                                                                                                                                                                                      |
| 40046  | 002D |        | R/W | Total alarm, range: 0000000000000000~00000002540BE3FF (0~999999999)                                                                                                                                                                                      |
| 40047  | 002E |        | R/W | Total alarm, range: 0000000000000000~00000002540BE3FF (0~999999999)                                                                                                                                                                                      |
| 40048  | 002F |        | R/W | Total alarm, range: 0000000000000000~00000002540BE3FF (0~999999999)                                                                                                                                                                                      |
| 40057  | 0038 | TOTAL  | R   | Total display, range: 0000000000000000~00000002540BE3FF (0~999999999)                                                                                                                                                                                    |
| 40058  | 0039 |        | R   | Total display, range: 0000000000000000~00000002540BE3FF (0~999999999)                                                                                                                                                                                    |
| 40059  | 003A |        | R   | Total display, range: 0000000000000000~00000002540BE3FF (0~999999999)                                                                                                                                                                                    |
| 40060  | 003B |        | R   | Total display, range: 0000000000000000~00000002540BE3FF (0~999999999)                                                                                                                                                                                    |
| 40061  | 003C | MAX.D  | R   | Max. displacement display, range: 00000000~0001869F (0~99999) Hi Bit                                                                                                                                                                                     |
| 40062  | 003D |        | R   | Max. displacement display, range: 00000000~0001869F (0~99999) Low Bit                                                                                                                                                                                    |
| 40063  | 003E | DEMAND | R   | Displacement display, range: 00000000~0001869F (0~99999) Hi Bit                                                                                                                                                                                          |
| 40064  | 003F |        | R   | Displacement display, range: 00000000~0001869F (0~99999) Low Bit                                                                                                                                                                                         |
| 40065  | 0040 | RATE   | R   | Rate display, range: 00000000~0001869F (0~99999) Hi Bit                                                                                                                                                                                                  |
| 40066  | 0041 |        | R   | Rate display, range: 00000000~0001869F (0~99999) Low Bit                                                                                                                                                                                                 |
| 40067  | 0042 | RATE   | R   | Rate display, range: 00000000~0001869F (0~99999) Hi Bit                                                                                                                                                                                                  |
| 40068  | 0043 |        | R   | Rate display, range: 00000000~0001869F (0~99999) Low Bit                                                                                                                                                                                                 |
| 40069  | 0044 | BATCH  | R   | Batch display, range: 00000000~0001869F (0~99999) Hi Bit                                                                                                                                                                                                 |
| 40070  | 0045 |        | R   | Batch display, range: 00000000~0001869F (0~99999) Low Bit                                                                                                                                                                                                |
| 40057  | 0038 | TOTAL  | R   | Total display, range: 0000000000000000~00000002540BE3FF (0~999999999)                                                                                                                                                                                    |
| 40058  | 0039 |        | R   | Total display, range: 0000000000000000~00000002540BE3FF (0~999999999)                                                                                                                                                                                    |
| 40059  | 003A |        | R   | Total display, range: 0000000000000000~00000002540BE3FF (0~999999999)                                                                                                                                                                                    |
| 40060  | 003B |        | R   | Total display, range: 0000000000000000~00000002540BE3FF (0~999999999)                                                                                                                                                                                    |