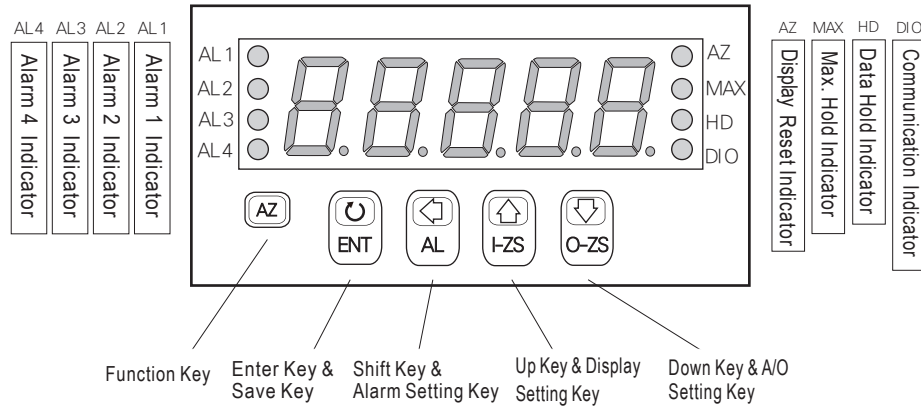


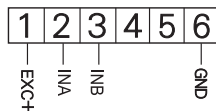
KEY FUNCTIONS

Measuring
StatusParameter
PageParameter
Setting

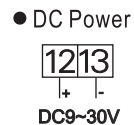
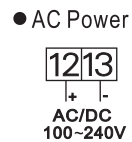
Enable the setting function	Enter to parameter groups	Hold for 3 sec. enter to Alarm Setpoint Modification	Hold for 3 sec. enter to Display Group Setting	Hold for 3 sec. enter to A/O Group Setting.	In any status can back to measuring status
		Enter to parameter setting	Back to the last parameter page	Go to the next parameter page	
	Save the value	Move the cursor left	Increase the digit	Decrease the digit	

WIRING CONNECTION

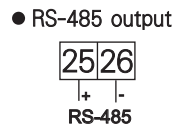
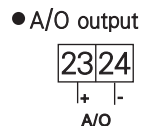
Input Function



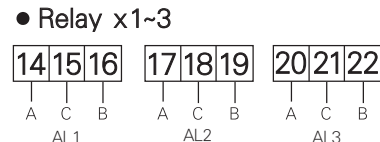
Power



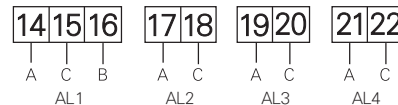
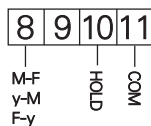
Output Function



Relay Function



Relay x4

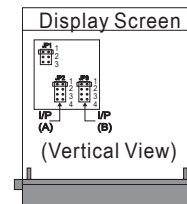
External Control
Function

ERROR CODE OF SELF-DIAGNOSIS

E-00

EEPROM reading / writing suffers the interference (about 1 million times).

Input Signal Modification



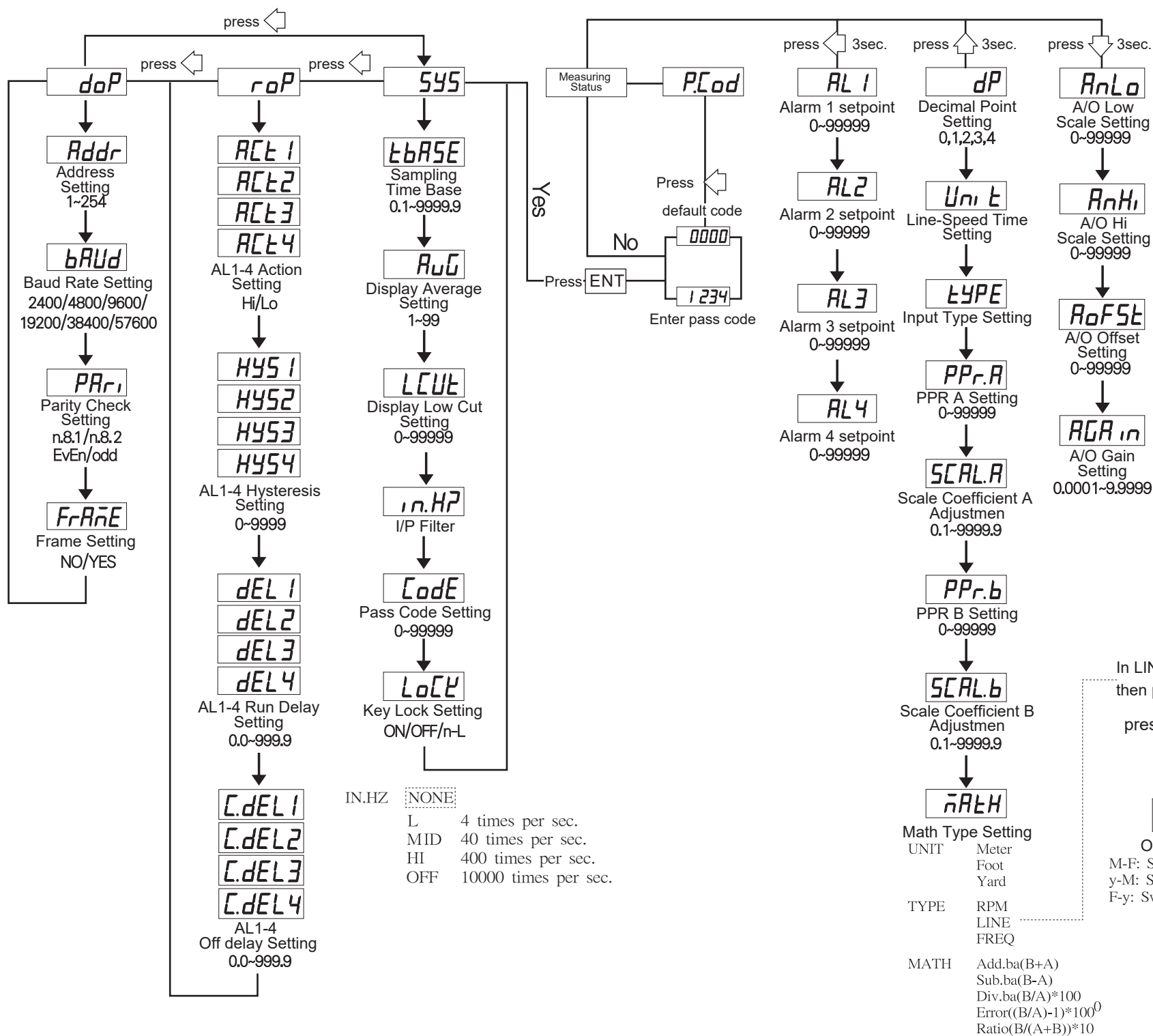
**To Select the pin to modify the input signal for different sensors.
PS: In dual input type, excitation power must be the same.

JP1	JUMPER	DEFINITION
1	Close	24V
2	Close	12V
3	Close	5V

Modbus RTU Mode Protocol Address Table

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

Modbus	HEX	Name	Descriptions	Act
40001	0000	ID	Model number identification; MR5 is "01"	R
40004	0003	DP	Decimal point setting; range: 0000~0003 (0~3) 0:10 ⁰ , 1:10 ¹ , 2:10 ² , 3:10 ³	R/W
40005	0004	BAUD	Baud rate setting; range: 0000~0003 (0~3) 0:2400, 1:4800, 2:9600, 3:19200, 4:38400, 5:57600	R/W
40006	0005	PARI	Parity setting; range: 0000~0003 (0~3), 0:N.8.1., 1:N.8.2., 2:EVEN, 3:ODD	R/W
40007	0006	AVG	Display average setting; range: 0001~0063 (1~99)	R/W
40008	0007	LCUT	Display low cut setting; range: 00000~34463(0~99999)	R/W
40009	0008	ADDR	Address setting; range: 0001~00FE (1~254)	R/W
40019	0012	CODE	Pass code setting; range: 00000000~0001869F(0~99999)Hi Bit	R/W
40020	0013		Pass code setting; range: 00000000~0001869F(0~99999)Low Bit	R/W
40038	0025	PV	Range: FFFCF2C1~000F423F(-19999~99999)	R
40039	0026		Range: FFFCF2C1~000F423F(-19999~99999)	R
40045	002C	DISPLAY	Range: FFFFB1E1~0001869F(-19999~99999)	R
40046	002D		Range: FFFFB1E1~0001869F(-19999~99999)	R



IN.HZ NONE
 L 4 times per sec.
 MID 40 times per sec.
 HI 400 times per sec.
 OFF 10000 times per sec.

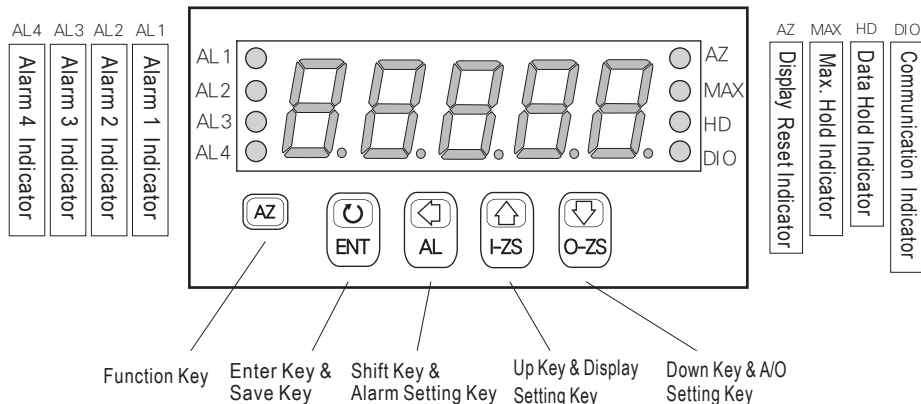
In LINE mode, return to the main screen,
 then press the AZ key.

press [AZ] 5sec.

OFF/M-F/y-M/F-y

M-F: Switch from Meter to Foot
 y-M: Switch from Yard to Meter
 F-y: Switch from Foot to Yard

KEY FUNCTIONS



Measuring Status

Parameter Page

Parameter Setting

Enable the setting function

Enter to parameter groups

Hold for 3 sec. enter to Alarm Setpoint Modification

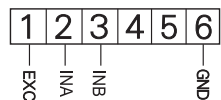
Hold for 3 sec. enter to Display Group Setting

Hold for 3 sec. enter to A/O Group Setting.

In any status can back to measuring status

WIRING CONNECTION

Input Function



Power

● AC Power



● DC Power



Output Function

● A/O output

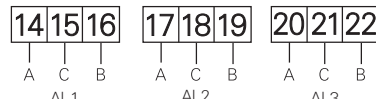


● RS-485 output

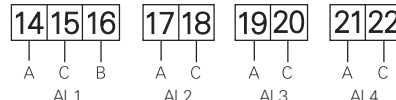


Relay Function

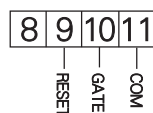
● Relay x1~3



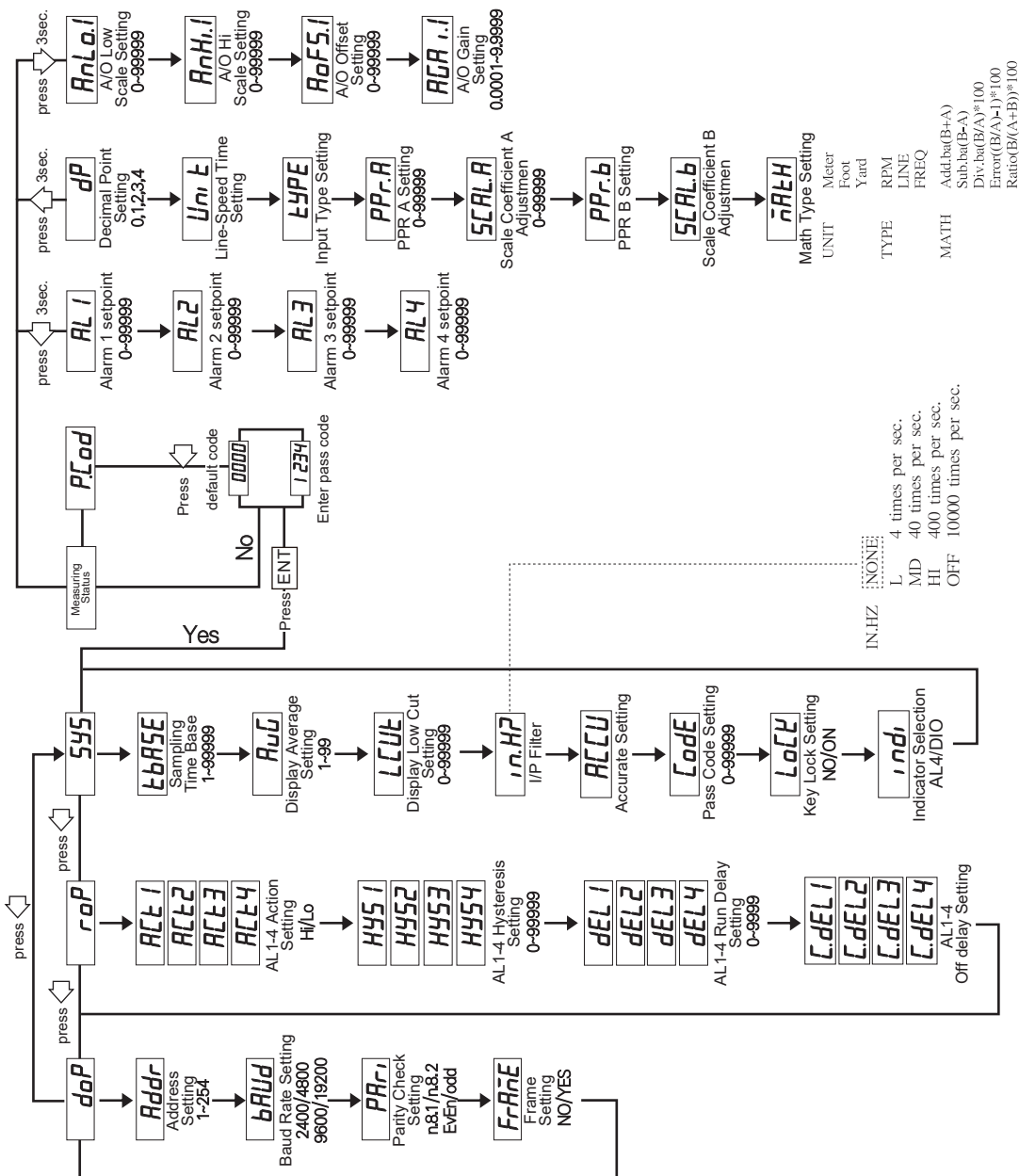
● Relay x4



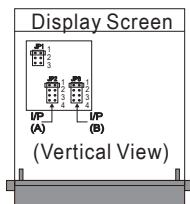
External Control Function



Programming Mode Operating Procedures



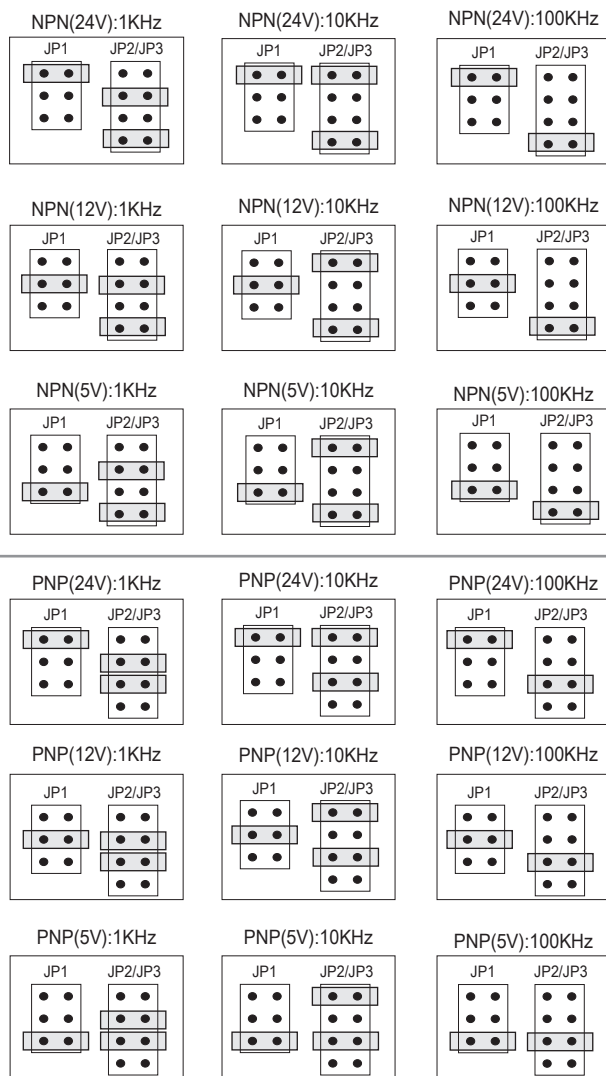
Input Signal Modification



**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



Modbus RTU Mode Protocol Address Table

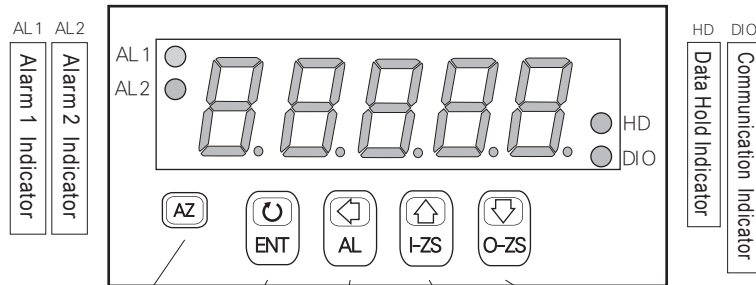
Data: 16Bit / 32Bit, +/- is 8000~7FFF (-32768~32767), 80000000~7FFFFFFF(-2147483648~2147483647)				
Modbus	HEX	Name	Descriptions	Act
40001	0000	ID	Model number identification; MR5 is "01"	R
40004	0003	DP	Decimal point setting; range: 0000~0003 (0~3) 0:10 ⁰ , 1:10 ⁻¹ , 2:10 ⁻² , 3:10 ⁻³	R/W
40005	0004	BAUD	Baud rate setting; range: 0000~0003 (0~3) 0:19200, 1:9600, 2:4800, 3:2400	R/W
40006	0005	PARI	Parity setting; range: 0000~0003 (0~3), 0:N.8.2., 1:N.8.1., 2:EVEN, 3:ODD	R/W
40007	0006	AVG	Display average setting; range: 0001~0063 (1~99)	R/W
40008	0007	LCUT	Display low cut setting; range: 0000~0063 (0~99)	R/W
40009	0008	ADDR	Address setting; range: 0000~00FF (0~255)	R/W
40019	0012	CODE	Pass code setting; range: 00000000~0001869F(0~99999)Hi Bit	R/W
40020	0013		Pass code setting; range: 00000000~0001869F(0~99999)Low Bit	R/W
40038	0025	PV	Range: FFFCF2C1~000F423F(-19999~99999)	R
40039	0026		Range: FFFCF2C1~000F423F(-19999~99999)	R
40045	002C	DISPLAY	Range: FFFFB1E1~0001869F(-19999~99999)	R
40046	002D		Range: FFFFB1E1~0001869F(-19999~99999)	R

ERROR CODE OF SELF-DIAGNOSIS

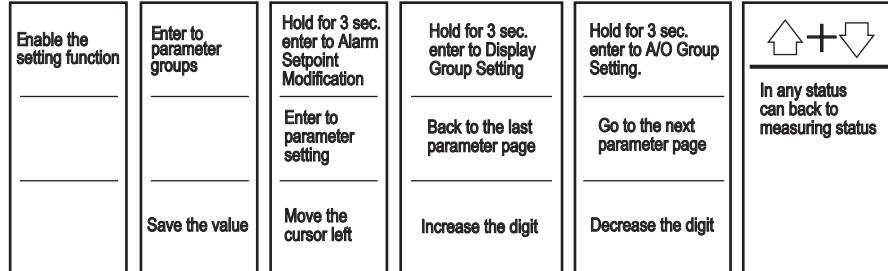
E-00

EEPROM reading / writing suffers the interference (about 1 million times).

KEY FUNCTIONS



Function Key

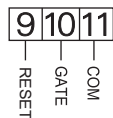
Enter Key &
Save KeyShift Key &
Alarm Setting KeyUp Key & Display
Setting KeyDown Key & A/O
Setting KeyMeasuring
StatusParameter
PageParameter
Setting

WIRING CONNECTION

Input Function



External Control Function



Power

● AC Power



● DC Power



Output Function

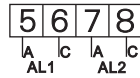
● Relay*1 Output



● Analog Output



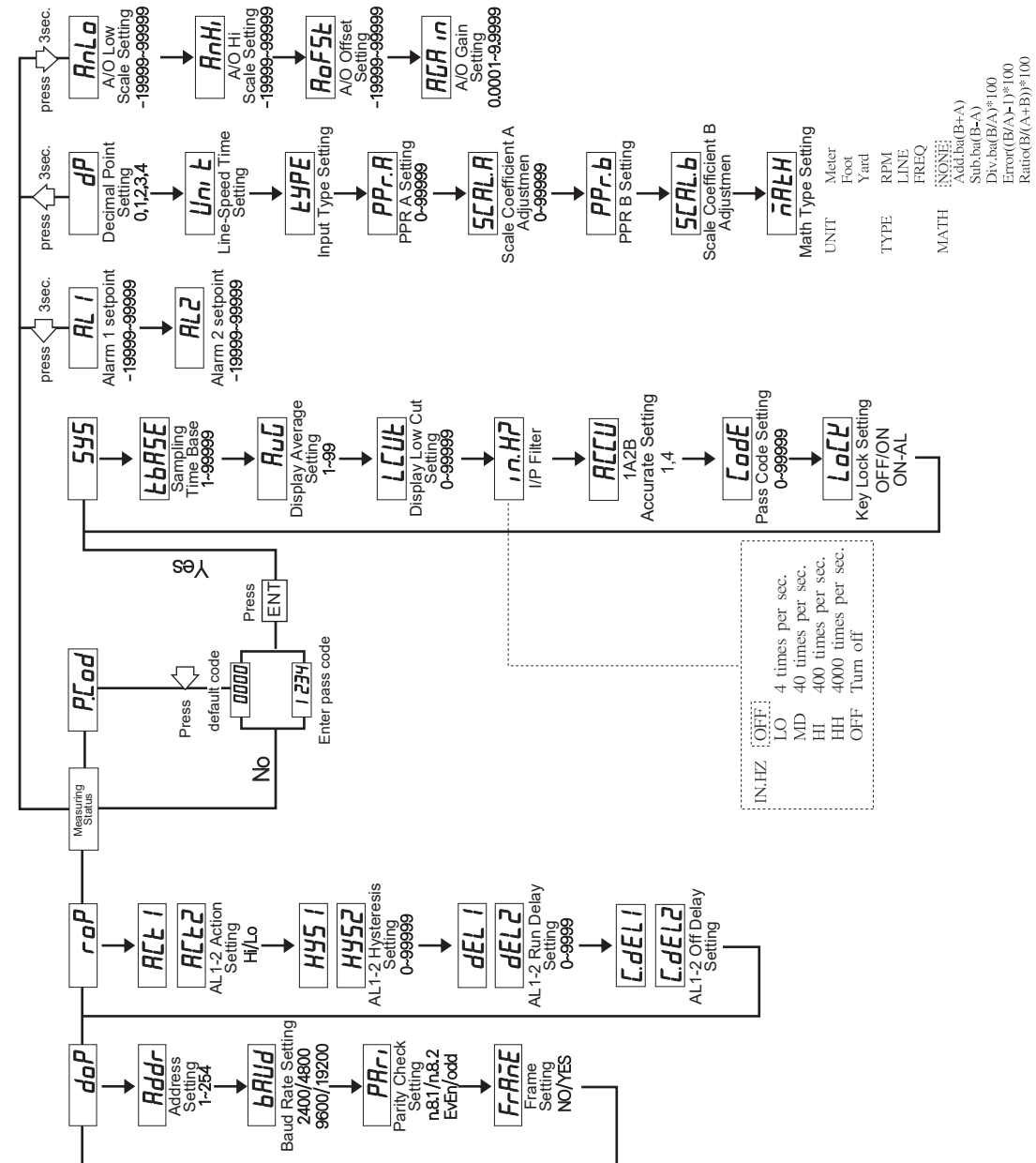
● Relay*2 Output



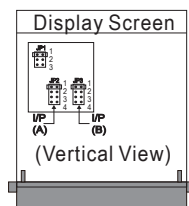
● RS485 Output



Programming Mode Operating Procedures



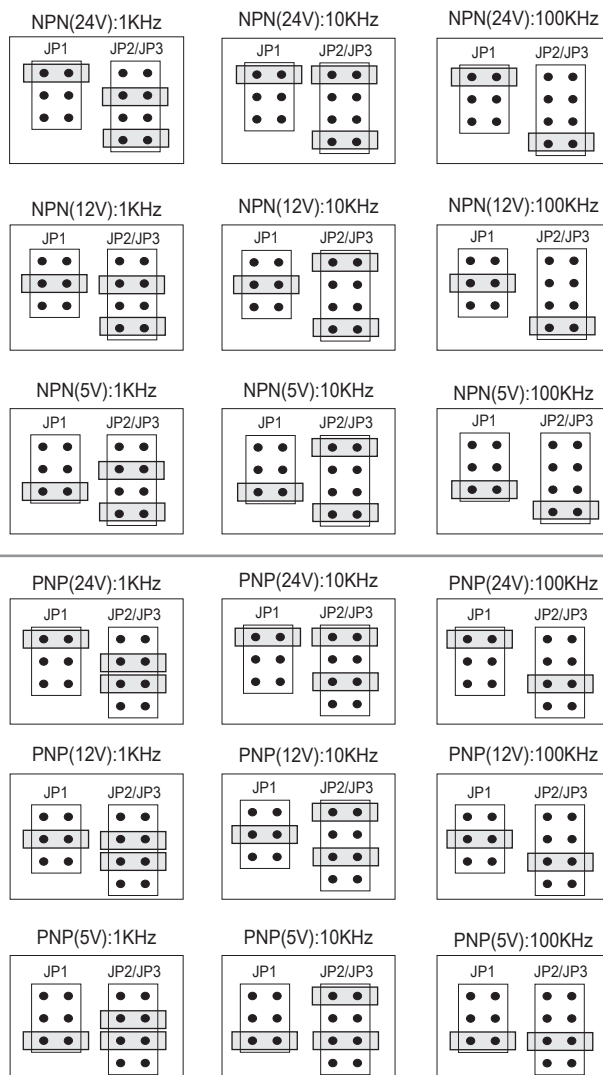
Input Signal Modification



**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	Open: 100KHz Close: 10KHz
	2	Open: 10KHz Close: 1KHz
	3	Open: NPN; Close: PNP
	4	Open: PNP; Close: NPN



Modbus RTU Mode Protocol Address Table

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

Modbus	HEX	Name	Descriptions	Act
40001	0000	ID	Model number identification; MR5 is "01"	R
40002	0001			
40003	0002			
40004	0003	DP	Decimal point setting; range: 0000~0003 (0~3) 0:10 ⁰ ; 1:10 ¹ ; 2:10 ² ; 3:10 ³	R/W
40005	0004	BAUD	Baud rate setting; range: 0000~0003 (0~3) 0:19200, 1:9600, 2:4800, 3:2400	R/W
40006	0005	PARI	Parity setting; range: 0000~0003 (0~3), 0:N.8.2., 1:N.8.1., 2:EVEN, 3:ODD	R/W
40007	0006	AVG	Display average setting; range: 0001~0063 (1~99)	R/W
40008	0007	LCUT	Display low cut setting; range: 0000~0063 (0~99)	R/W
40009	0008	ADDR	Address setting; range: 0000~00FF (0~255)	R/W
40019	0012	CODE	Pass code setting; range: 00000000~0001869F (0~99999) Hi Bit	R/W
40020	0013		Pass code setting; range: 00000000~0001869F (0~99999) Low Bit	R/W
40038	0025	PV	Range: FFFCF2C1~000F423F (-19999~99999)	R
40039	0026		Range: FFFCF2C1~000F423F (-19999~99999)	R
40045	002C	DISPLAY	Range: FFFFB1E1~0001869F (-19999~99999)	R
40046	002D		Range: FFFFB1E1~0001869F (-19999~99999)	R

ERROR CODE OF SELF-DIAGNOSIS

$\pm 10FL$	Input signal is over 120% of input range.
$-10FL$	Input signal is under -10% of input range.
$RdEr$	Input signal is over 180% of input range or meter error.
$doFL$	Input signal is over display range (999999).
$-doFL$	Input signal is under display range (-199999).
$E-00$	EEPROM reading / writing suffers the interference (about 1 million times).