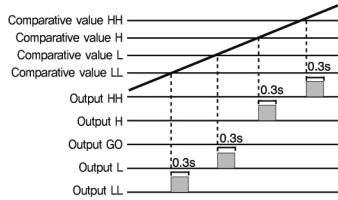


■ ONE short **out-F** mode

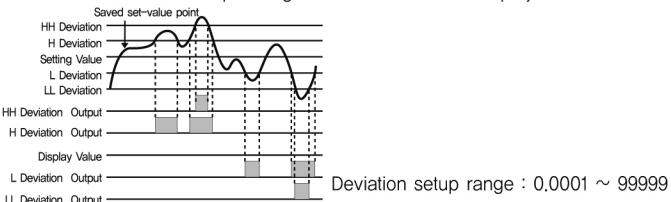


Output HH(ON) : Comparative value
HH ≤ Display value
Output H(ON) : Comparative value
H ≤ Display value
< Comparative value HH
Output L(ON) : Comparative value
LL < Display value
≤ Comparative value L
Output LL(ON) : Comparative value
LL ≥ Display value

■ Double variation **out-d** mode

It makes the set value to be saved and within the set values, it yields the output when the value exceeds the HH deviation, H deviation, L deviation and LL deviation.

- Set value auto-setting: Let currently displayed value to be saved by pressing ***** + **▼**
- Set value display : Pressing the **▼** key once will display the saved set value and pressing it one more time will display the current value.



* Please refer to the Hysteresis function for Hys

* Comparative value should be set as following order in order to get proper operation LL(L(H)HH)

* Applied only with the models RP3, RP6 and Rp7. But it is not applied with the model for indicating only.

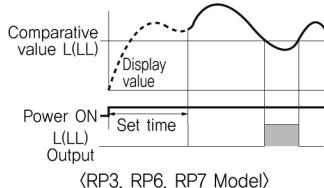
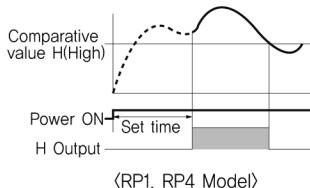
Function Description

■ Auto Zero Function

If you know input pulse width, set more longer time than input pulse time width as Auto Zero value. If there is no input within setting time, displayed value will be "00000" by compulsion. Especially in case there is no pulse input within a specific period of time or when revolving object is expected to be stopped, you can set the time as Auto Zero time setting.

■ Starting Compensation Timer Function

After turning the power ON, it invalidates the measurement in a specific period of time. This function removes faulty outputs caused by irregularly input values such as chattering and starting current. When starting revolving object, it is especially valid in case it does not make High Comparative(H), Low Comparative(L,LL) judgment by means of low speed revolution. (Setting time : 0.1 sec ~ 99.9 sec)



■ Time Unit Selection Function

It is efficient that measurement value could be selected and displayed with various time units.

- Available time units : Decimal system and Sexagesimal system.
- Available mode : F3, F4, F5, F6

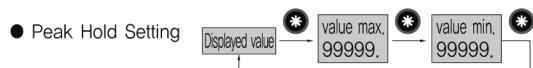
■ Display Cycle Setting Function

Display cycle for measured value could be selected as follows.

Available settings of display cycle = 0.05 / 0.5 / 1 / 2 / 4 / 8 sec

■ Peak Hold and Reset Function

This function displays Max value and Min value among displayed values. It is possible to select it by one-touch button.



■ Peak Hold Storage and Confirmation

Peak Value max. : Saved in **HPEY.1~HPEY.4-HPEYR**

Peak Value min. : Saved in **LPEY.1~LPEY.4-LPEYR**

* Each value, Max value, Min value, Peak value is stored on memory in four steps. The average value for 4 values is stored on the memory of Max, Min average value. It could be verified and cleared automatically when changing measurement mode.

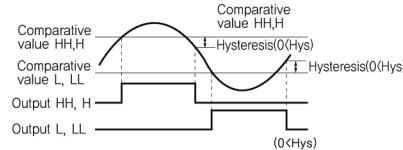
* When Max / Min value is displayed now, the very right side Dot is ON.

■ Hysteresis Function

In case measured value becomes unstable near comparative value, set hysteresis value based on set value in order to prevent unstable output operation. For comparative value HH,H, the decreased value is applied as hysteresis value. For comparative value LL,L, increased value is applied as the hysteresis value.

* Comparative H(High value), Output H are only applicable to RP1, RP4.

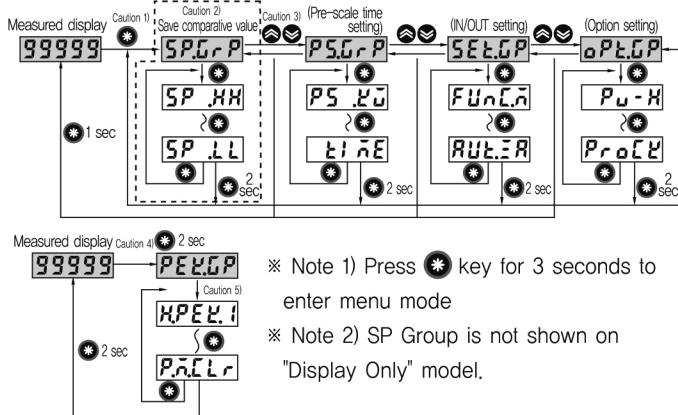
* Hysteresis is not applicable to "Display Only" model.



Parameter Description

* Below parameter display signals are shown based on 5 digits. Regarding RP1 model(4 digits),please refer to page 6.

■ Menu Setting Flow Chart



* Note 1) Press ***** key for 3 seconds to enter menu mode
* Note 2) SP Group is not shown on "Display Only" model.

* Note 3) In each Group, you can move to other Groups by press **◀** or **▶** key. Pressing ***** key for 1 minute leads to enter into measured screen.

* Note 4) Pressing ***** key for 2 seconds leads to enter into **PEY.RP**

* Note 5) In case of entering into **HPEY.1** out of **PEY.RP** please take hand off the key or press the key.

■ Parameter Group Flow Chart

1. SP Group [**SPGrP**]

Set menu	Setting	Setting information	Initial value
1 sec SPGrP	Select the comparative value setting group	In case of setting a measured value under a decimal point, below set values could be converted to be set under decimal point,	
2 sec SP.HH 0000 1~99999	Set the comparative value HH ③		00000
2 sec SP.H 0000 1~99999	Set the comparative value H ①		00000
2 sec SPSET 0000 1~99999	Set value (Valid only in the D output) ②	• F1, F2, F7, F8, F9 : ~99999	00000
2 sec SP.L 0000 1~99999	Set the comparative value L	• F3, F4, F5, F6 : 0 ~ Set time range	00000
2 sec SP.LL 0000 1~99999	Set the comparative value LL ③		00000

* ① : Comparative value H(High value) setting could be shown on RP1, PR4 model.

* ② : It is used in Output out-d only, it is not displayed on other output modes.

* ③ : RP3, RP7 Only applicable with the model RP7 and RP3.

* SP Group(Comparative Setting Group) is to set each output condition(HH,H,GO,L,LL). Stable output is available by setting each parameter and inputting Hysteresis value. But, "Display Only" model does not use the above parameter setting group.

* When changing setting value : (**◀** : change of digit, **▼** or **▶** : change of set value)

2. PS Group [PSGrP]

Set menu	Setting	Setting information	Initial value
Display value 1 sec SPGrP PSGrP PS_Rx : 0.0000~9.9999 PS_Ry : 10-9~10 9 d5dot : 99999.99999 d55RP : 0.05/0.5/1/2/4/8 HYS : 0000~9999 tE_nE : Set the input time unit SI_wRn : 10 s.dddd ss.ddd ss:ss.d ssss	PSGrP Select the pre-scale setting group PS_Rx Set the Pre-scale (X) of IN A PS_Ry Set the Pre-scale (Y) of IN A d5dot Set position of decimal point of the display value d55RP Set the displaying cycle HYS Set the hysteresis of output value tE_nE Set the input time unit (Operation mode F3,F4,F5,F6)	Group that sets the pre-scale value of comparative value Set the Pre-scale (X) of IN A Set the Pre-scale (Y) of IN A It is possible to set the decimal point as you want. It is possible to set the displaying cycle as you want. It is possible to set the Hysteresis value as you want. It is possible to set the time setting value as you want.	
2 sec		99999.99999.99999.99999.99999.99999	99999.
		0.05~0.5~1~2~4~8	0.05
		0000~9999	0000
		10-5.sssss-55.sss-555.ss-5555.s-55555 60-55.sss-ss-55.s-ss-55-ss-ss-ss	5.sssss

* when changing the set value ( : shift the row,  or  : change the set value)

* Hysteresis is not displayed from N type(Display only).

3. Setup Group [SETGrP]

Set menu	Setting	Setting information	Initial value
Display value 1 sec SPGrP PSGrP SETGrP FUNLn : F1~F9 IN-R : PnPa/PnPa/ContE IN-B : PnPa/PnPa/ContE OUT-n : OUT-S/OUT-J/OUT-H RULEx : 0.00~99.9 RULEb : 0.00~99.9 RULEA : 0000.0~99999	SETGrP Select the input/output control setting group FUNLn Set the input operation mode IN-R Set the IN A sensor type IN-B Set the IN B sensor type OUT-n Set the output mode RULEx Set the IN A Starting compensation timer RULEb Set the IN B Starting compensation timer RULEA Set the IN A Auto Zero timer	This is input/output control setting group that sets according to the input and output F1~F9 nPnno : NPN Normal Open nPnne : NPN Normal Close PnP.no : PNP Normal Open PnP.nE : PNP Normal Close ContE : Contact Normal Open nPnno-nPnne-PnP.no-PnP.nE-ContE. nPnno : NPN Normal Open nPnne : NPN Normal Close PnP.no : PNP Normal Open PnP.nE : PNP Normal Close ContE : 접점 Normal Open nPnno-nPnne-PnP.no-PnP.nE-ContE. OUT-S-OUT-J-OUT-H-OUT-L-OUT-F-OUT-d 00.0	
2 sec			
		00.1~99.9	00.0
		00.1~99.9	00.0
		0000.1~99999	00000.0

* ① : Displayed only with the models RP3, RP6 and Rp7. But it is not displayed with the model for indication only.

* When changing the set value ( : shift the row,  or  : change the set value)

4. Option Group [oPtGrP]

Set menu	Setting	Setting information	Initial value
Display value 1 sec SPGrP PSGrP SETGrP oPtGrP	oPtGrP Select the option setting group Pu-H Set the High value of PV transfer output Pu-L Set the Low value of PV transfer output	This is option setting group that sets the option of input/output setting parameter • F1, F2, F7, F8, F9 : 0 ~ 99999 • F3, F4, F5, F6 : 0 ~ Set time range	
			99999
			00000