



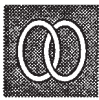
FUNCTION

- The average processing of inputs are enabled for setting.
- Average processing prevents the display from fluctuating due to unstable input.
- Select simple average processing or movement average processing and the number of sampling times.

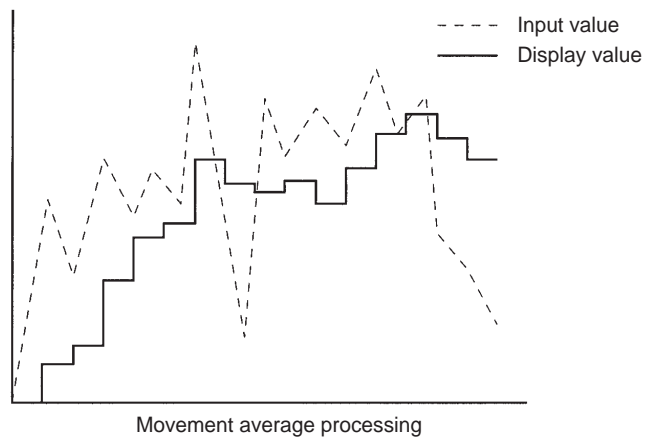
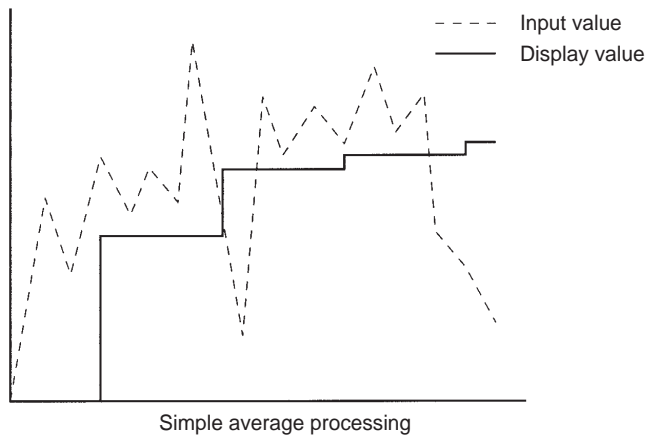
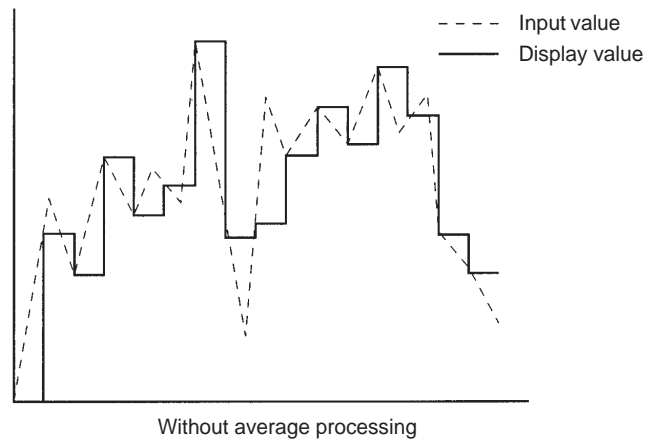


SETTING

Setting	Default
1: No average processing	1
m0002: Movement average processing by sampling 2 times	
m0004: Movement average processing by sampling 4 times	
m0008: Movement average processing by sampling 8 times	
m0016: Movement average processing by sampling 16 times	
m0032: Movement average processing by sampling 32 times	
s0002: Simple average processing by sampling 2 times	
s0004: Simple average processing by sampling 4 times	
s0008: Simple average processing by sampling 8 times	
s0016: Simple average processing by sampling 16 times	
s0032: Simple average processing by sampling 32 times	



REFERENCE



Simple Average Processing:

The average value is displayed after the input is sampled "n" times.

The previous value is displayed until the sampling is complete.

Simple average processing is ideal for a display refresh period that is comparatively long.

The number of sampling times can be set to 2, 8, 16, or 32.

Movement Average Processing

When an input is sampled, the new sampling data is added to the previous sampling data and averaged.

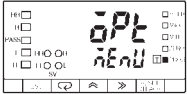
Movement average processing is ideal for removing cyclic noise from the input signal.

The number of sampling times can be set to 2, 8, 16, or 32.

**SETTING
EXAMPLE**

Follow the steps described below to set the number of movement average processing times to 16.

Set Value LED Display Model



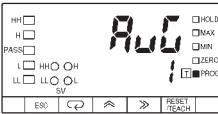
Basic Model



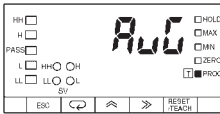
1, 2, 3...

Press the Mode Key for more than one second while the opt option menu is displayed. The aUg average processing setting will appear.

Set Value LED Display Model



Basic Model

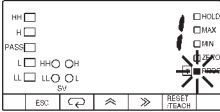


Press the Shift Key to display the prior setting 1 for changing. The PROG indicator will flash.

Set Value LED Display Model



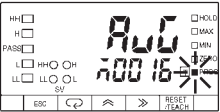
Basic Model



Repeatedly press the Up Key until m0016 is displayed. The setting will be validated automatically if no change is made for five seconds. The aUg average processing setting will be displayed again.

Note Press the Mode Key to enter the set value immediately. The next parameter will be displayed for setting.

Set Value LED Display Model



Basic Model



When no operation is executed for five seconds

Set Value LED Display Model



Basic Model





FUNCTION



SETTING

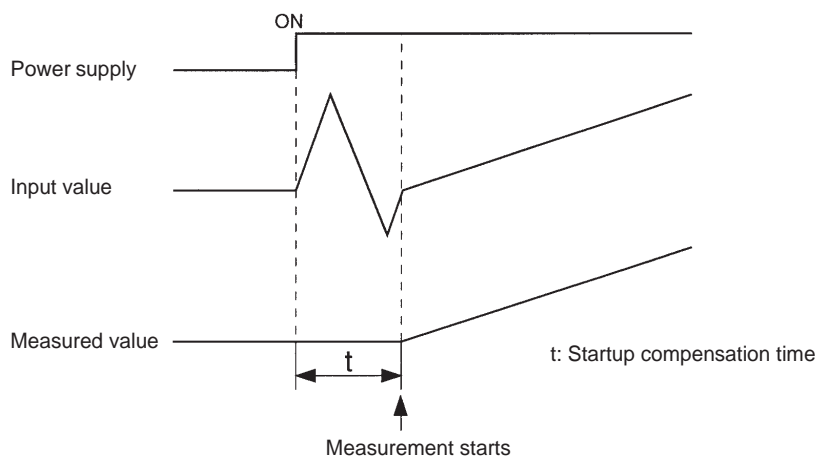


REFERENCE

- The interval between the moment the K3NV is turned and the moment the K3NV enters measurement operation is set in the option menu.

Setting range	Unit	Default
0.0 to 99.9	s	0.0

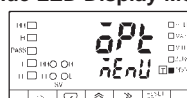
The K3NV will display "00000" with all outputs turned OFF until the K3NV is in measurement operation.



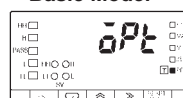
SETTING EXAMPLE

Follow the steps described below to set the startup compensation time to 2 seconds.

Set Value LED Display Model



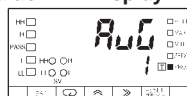
Basic Model



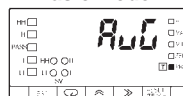
1, 2, 3...

Press the Mode Key for more than one second while the opt option menu is displayed. The aUg average processing setting will appear.

Set Value LED Display Model

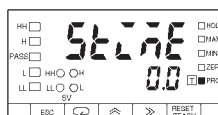


Basic Model

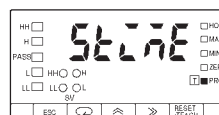


Press the Mode Key to display the stine startup compensation time setting.

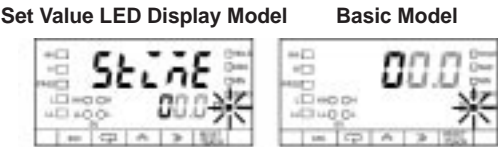
Set Value LED Display Model



Basic Model

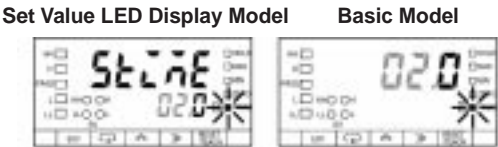


Press the Shift Key to display the prior set value 000 for changing.
The PROG indicator will flash.

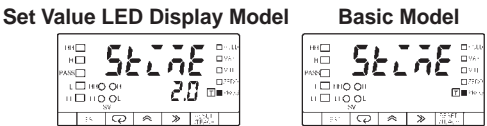


Press the Up and Shift Keys to set the value to 02.0. The setting will be validated automatically if no change is made for five seconds. The stine startup compensation time setting will be displayed again.

Note Press the Mode Key to enter the set value immediately. The next parameter will be displayed for setting.



When no operation is executed for five seconds





FUNCTION

- The hysteresis can be set in the option menu to prevent “chattering” of the output if the measured value fluctuates in the vicinity of the setting values.
- The hysteresis can be set within a range of 1 and 9999 digits for four consecutive digits beginning with the leftmost digit regardless of the decimal point.
- The value set to 0 is regarded as 1.
- The decimal point position set in the scaling menu becomes valid.



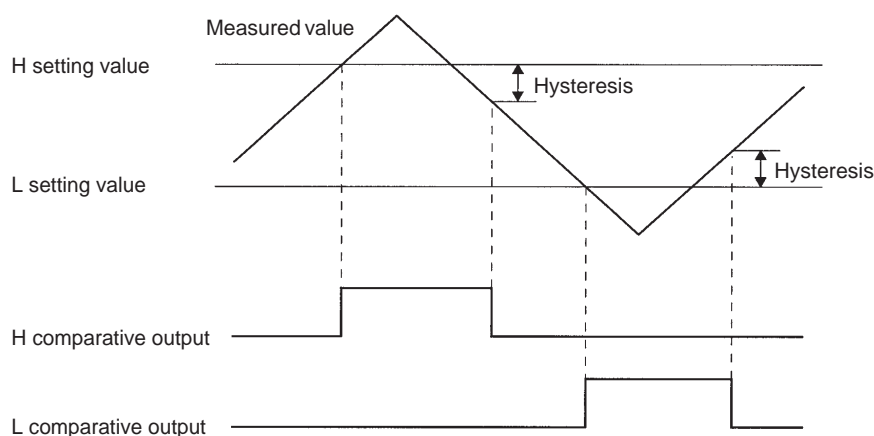
SETTING



REFERENCE

Setting range	Unit	Default
1 to 9999	---	1

If the comparative output is a level output, however, the hysteresis will be enabled when the measured value starts to become smaller than the HH, H, LL, and L setting values.



MODELS

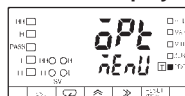
This setting is only available for the K3NV with the Comparative Output Unit.

SETTING EXAMPLE

Follow the steps described below to set the hysteresis to 30.

Set Value LED Display Model

Basic Model

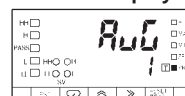


1, 2, 3...

Press the Mode Key for more than one second while the opt option menu is displayed. The aUG average processing setting will appear.

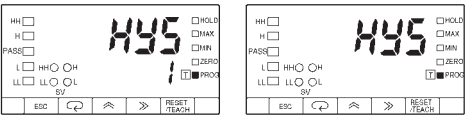
Set Value LED Display Model

Basic Model



Repeatedly press the Mode Key until the hys hysteresis setting is displayed.

Set Value LED Display Model Basic Model



Press the Shift Key to display the prior set value 0001 for changing. The PROG indicator will flash.

Set Value LED Display Model Basic Model



Press the Up and Shift Keys to set the value to 0030. The setting will be validated automatically if no change is made for five seconds. The hys hysteresis setting will be displayed again.

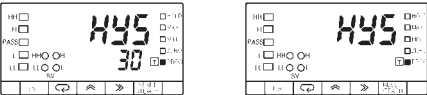
Note Press the Mode Key to enter the set value immediately. The next parameter will be displayed for setting.

Set Value LED Display Model Basic Model



When no operation is executed for five seconds

Set Value LED Display Model Basic Model





FUNCTION



SETTING



REFERENCE

- The pattern of HH, H, L, LL, and PASS comparative outputs is set in the option menu.

Setting	Default
nomal: Standard output	nomal
=one: Zone output	
leUel: Level output	

Standard Output

H or HH Comparative Output:

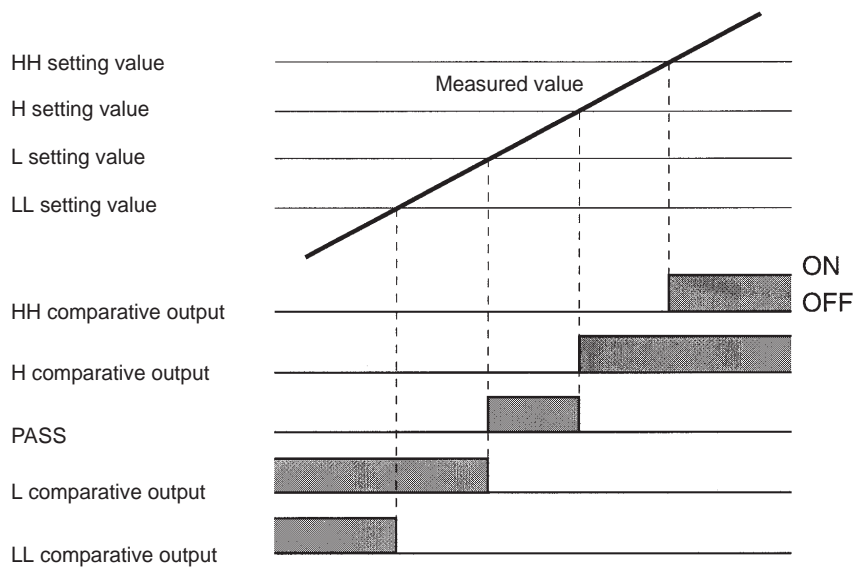
Turns ON when the measured value is larger than the H or HH setting value.

PASS Output:

Turns ON when LL, L, H, and HH comparative outputs are all OFF.

L or LL Comparative Output:

Turns ON when the measured value is smaller than the L or LL setting value.



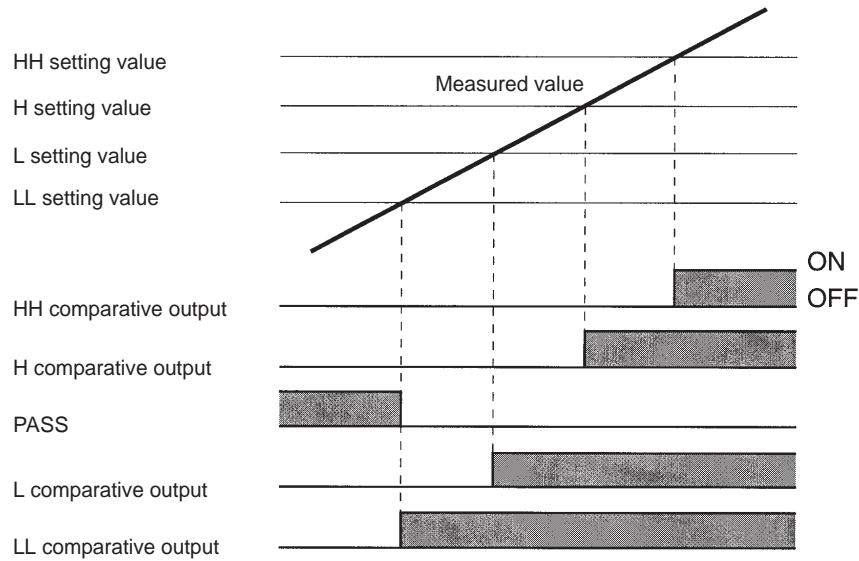
Level Output

LL, L, H, or HH Comparative Output:

Turns ON when the measured value exceeds the LL, L, H, or HH setting value.

PASS Output:

Turns ON when the LL, L, H, and HH comparative outputs are all OFF.



Zone Output

HH Comparative Output:

Turns ON when the measured value exceeds the HH setting value.

H Comparative Output:

Turns ON when the measured value is between the H and HH setting values.

PASS Output:

Turns ON when the measured value is between the L and H setting values.

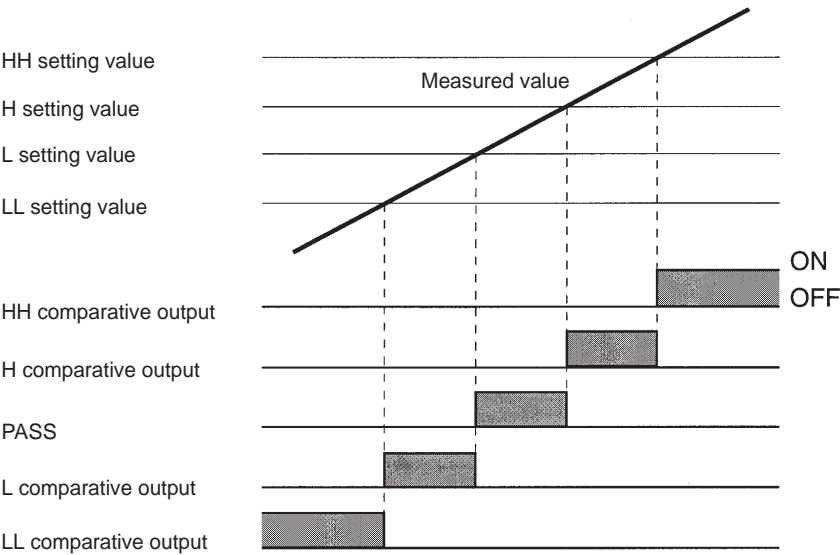
L Comparative Output:

Turns ON when the measured value is between the LL and L setting values.

LL Comparative Output:

Turns ON when the measured value falls below the LL setting value.

Be sure to set the setting values so they satisfy the following formula:
 $LL < L < H < HH$



MODELS

This setting is only available for the K3NV with the Comparative Output Units.-

SETTING
EXAMPLE

Follow the steps described below to set the comparative output pattern to level output.

Set Value LED Display Model

Basic Model

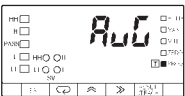
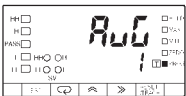


1, 2, 3...

Press the Mode Key for more than one second while the opt option menu is displayed. The aUg average processing setting will appear.

Set Value LED Display Model

Basic Model



Repeatedly press the Mode Key until the c-out comparative output pattern setting is displayed.

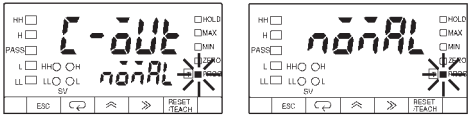
Set Value LED Display Model

Basic Model



Press the Shift Key to display the prior setting nomal for changing.
The PROG indicator will flash.

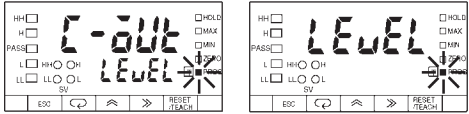
Set Value LED Display Model Basic Model



Press the Up Key twice to display 1eUe1. The setting will be validated automatically if no change is made for five seconds. The c-out comparative output pattern setting will be displayed again.

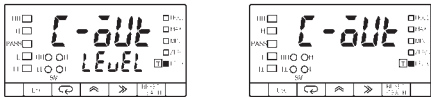
Note Press the Mode Key to enter the setting immediately. The next parameter will be displayed for setting.

Set Value LED Display Model Basic Model



When no operation is executed for five seconds

Set Value LED Display Model Basic Model



lset.h

lset.l

Upper Limit (H) of Linear Output Range

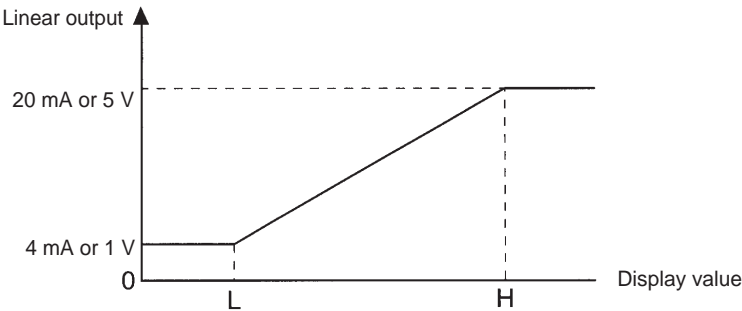
Lower Limit (L) of Linear Output Range



FUNCTION

Linear output setting is made in the option menu to enable the K3NV to have voltage or current output in proportion to the change in display value.

- The maximum and minimum values of linear output are set in this parameter.



- L can be greater or less than H.
- L cannot be the same as H, otherwise H will be automatically set to a value obtained by adding 1 to L.
- The teaching function can be used for setting linear output ranges.



SETTING



REFERENCE



MODELS

Setting range	Default	
-19999 to 99999	H linear output range	199.99
	L linear output range	0.000

Refer to Section 5-1 *Teaching Function*.

This setting is available for the K3NV with the Linear Output Board.

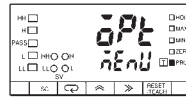
SETTING EXAMPLE

Follow the steps described below to set the following. Assume that the decimal point is set in the scaling menu.

H: 10.000

L: 0.000

Set Value LED Display Model



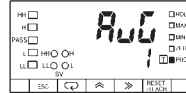
Basic Model



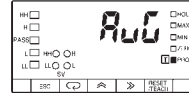
1, 2, 3...

Press the Mode Key for more than one second while the opt option menu is displayed. The aUg average processing setting will appear.

Set Value LED Display Model



Basic Model



Repeatedly press the Mode Key until the lset.h H linear output range setting is displayed.

Set Value LED Display Model



Basic Model



Press the Shift Key to display the prior set value 19.999 for changing. The PROG indicator will flash.

Set Value LED Display Model



Basic Model



Press the Up and Shift Keys to set the value to 10.000. The setting will be validated automatically if no change is made for five seconds. The lset.h H linear output range setting will be displayed again.

Note Press the Mode Key to enter the set value immediately. The next parameter will be displayed for setting.

Set Value LED Display Model



Basic Model

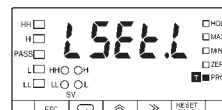


Press the Mode Key to display the lset.l L linear output range setting.

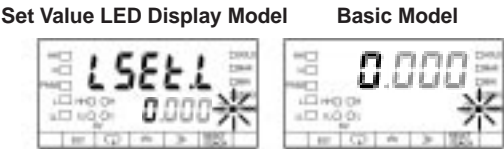
Set Value LED Display Model



Basic Model

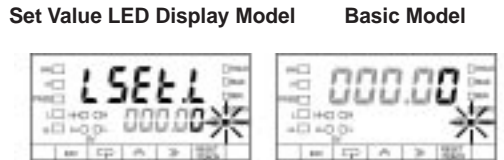


Press the Shift Key to display the prior set value 0.000 for changing.
The PROG indicator will flash.

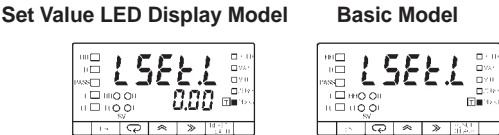


Press the Up and Shift Keys to set the value to 000.00. The setting will be validated automatically if no change is made for five seconds. The lset.L L linear output range setting will be displayed again.

Note Press the Mode Key to enter the set value immediately. The next parameter will be displayed for setting.



When no operation is executed for five seconds





FUNCTION



SETTING



MODELS

- The K3NV can be set to remote or local mode in the option menu. The K3NV in remote mode is operated through the host computer and the K3NV in local mode is operated through the front panel key input.

Setting	Default
Remote: rmt Local: lcl	lcl

This setting is available for the K3NV with the Communications Output Board.

SETTING EXAMPLE

Follow the steps described below to set the K3NV to remote programming.

Set Value LED Display Model

Basic Model

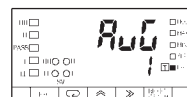


1, 2, 3...

Press the Mode Key for more than one second while the opt option menu is displayed. The aUg setting will appear.

Set Value LED Display Model

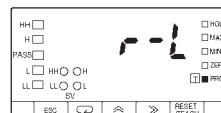
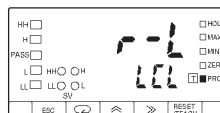
Basic Model



Repeatedly press the Mode Key until the r-l remote/local setting is displayed.

Set Value LED Display Model

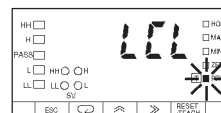
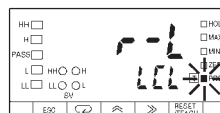
Basic Model



Press the Shift Key to display the prior setting lcl for changing. The PROG indicator will flash.

Set Value LED Display Model

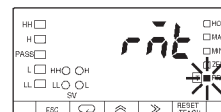
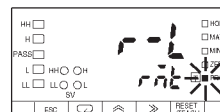
Basic Model



Press the Up Key to display rmt.

Set Value LED Display Model

Basic Model



Note Press the Mode Key to enter the setting immediately. The r-l remote/local setting will be displayed again.

Basic Model

