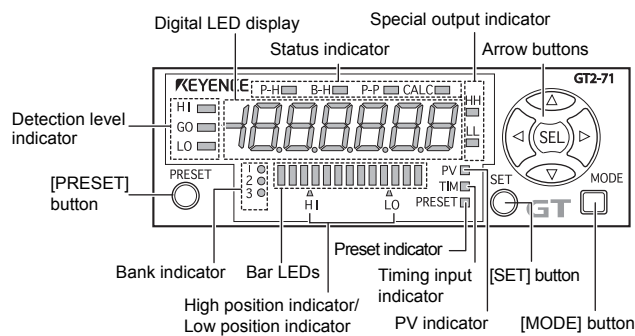


## High-accuracy Digital Contact Sensor GT2-70 Series Setting Guide



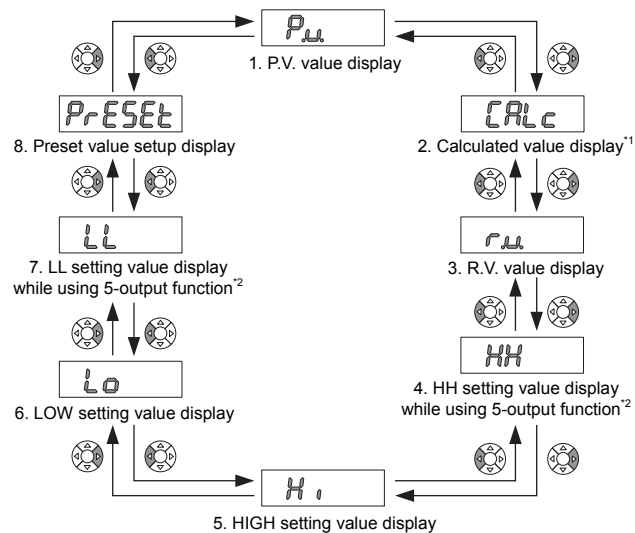
### Amplifier Display

#### Names of the part of the amplifier



#### Digital LED Display

The main display can be switched by pressing the left/right arrow buttons.

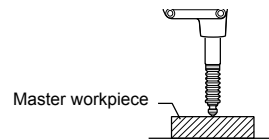


P.V. : Displays a value used for output judgment.  
Calc : Displays a calculated value when used.  
R.V. : Displays the raw, actual detection value.  
HH : Displays the HH setting value when used  
HI : Displays the HIGH setting value.  
LOW : Displays the LOW setting value.  
LL : Displays the LL setting value when used.  
PRESET : Displays the value which would be set when the [PRESET] button is pressed.

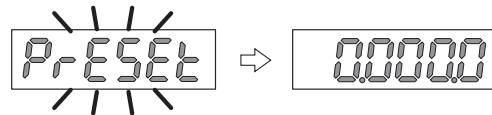
### Setup Functions

#### Set the current value to "0"

- Set the master target which should be "0".



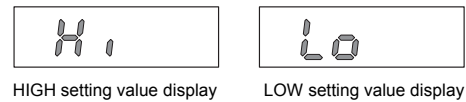
- Press the [PRESET] button.



- The current value would be set to "0".

#### Set the HIGH and LO tolerance.

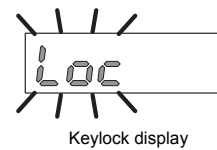
- Press the left/right arrow buttons until the [HIGH]/[LO] setting display appears.



- Input the HIGH or LO tolerance by pressing the up/down arrow buttons.
- The HIGH and LO tolerance would be set.

#### Setting the Key Lock

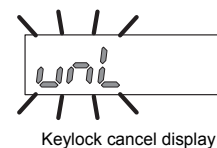
- Press the MODE and the up arrow button for at least 2 seconds.



- The Key Lock display would appear.

#### Canceling the Key Lock

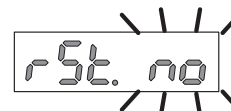
- When the Key Lock is set, press the MODE and the up arrow button for at least 2 seconds.



- The Key Lock would be cancelled.

#### Initializing the sensor

- Press the SET button 5 times while pressing the MODE button.



- "rSt.no" would appear, press the up/down arrow button and select "rSt.YES".



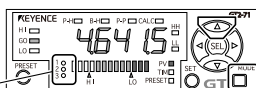
- Press the MODE button. The sensor would be initialized.

## ■ Changing the bank (program)

1. Press the up/down arrow button while pressing the MODE button.

<Bank 0 is selected>

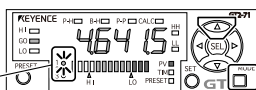
The bank indicator is turned off.



While holding down [MODE], press [Up].

<Bank 1 is selected>

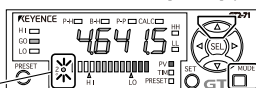
The bank indicator 1 is lit in green.



While holding down [MODE], press [Up].

<Bank 2 is selected>

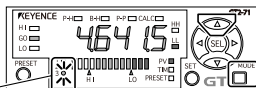
The bank indicator 2 is lit in green.



While holding down [MODE], press [Up].

<Bank 3 is selected>

The bank indicator 3 is lit in green.

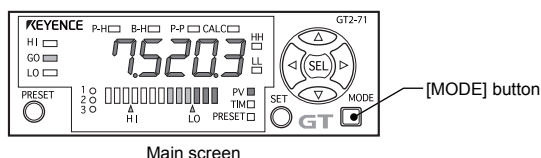


2. The bank (program) would be switched to another one. Each bank (program) will have an own HH/HIGH/LOW/LL/PRESET setting value.

## Function setting mode

### ■ How to enter the Function setting mode

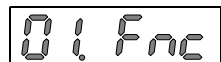
1. Press the MODE button for at least 2 seconds.



Main screen

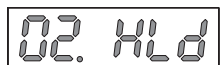
2. Press the left/right arrow button and select the function number.

### ■ 01 Detection mode



Set the detection mode from [Standard], [NG hold], [Peal hold], [Bottom hold] or [Peak to peak] mode.

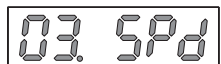
### ■ 02 Hold update method



Set how to update the hold value from [Timing input] or [Regular update].

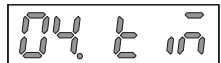
Only available when **[01 Fnc]** is set to [Standard], [Peal hold] or [Bottom hold].

### ■ 03 Response time



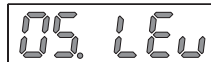
Set the response speed.

### ■ 04 Timing type



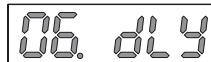
Set the timing time from [External input], [Rising edge] or [Falling edge]. Only available when **[01 Fnc]** is set to [Standard], [Peal hold] or [Bottom hold].

### ■ 05 Self timing level



Set the self timing level. Only available when **[04 t in]** is set to [External input].

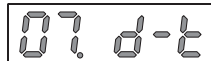
### ■ 06 Self timing delay type



Set how the value is decided after the self timing is input, from [Static hold] or [Delay timer].

Only available when **[01 Fnc]** is set to [Standard], and **[04 t in]** is set to [External input].

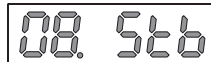
### ■ 07 User specified delay time



Set the delay time used for **[06 dLy]**.

Only available when **[06 dLy]** is set to [Delay timer].

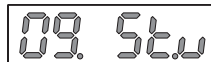
### ■ 08 Static hold delay stability criterion



Set how the decide the range, which is used to judge if the value is stable or not, from [Default] or [User].

Only available when **[06 dLy]** is set to [Static hold].

### ■ 09 Static hold delay stability width



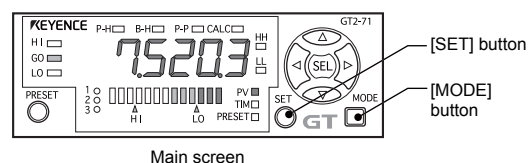
Set the range which is used to judge if the value is stable or not.

Only available when **[08 Stb]** is set to [User].

## Basic setting mode

### ■ How to enter the Function setting mode

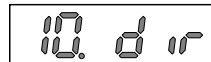
1. Press the MODE and SET button at the same time for at least 2 seconds.



Main screen

2. Press the left/right arrow button and select the function number.

### ■ 10 Measurement direction change



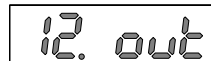
Set how the value moves, when the spindle is pressed, from [Normal] or [Reverse].

### ■ 11 Measurement direction change



Set a number if the value has to be multiplied.

### ■ 12 Output format



Set the output mode from [N.O.] or [N.C.].

### ■ 13 Displayed number of digits

13. d5P

Set the number of digits of the value.

### ■ 14 Hysteresis

14. HYS

Set the hysteresis value.

### ■ 15 Batch input setting

15. tOt

Set if the external input to the main unit should work only to the main amplifier, or also to the sub amplifier.

### ■ 16 Special output setting (normal amplifier without analog output)

16. SPo

Set how to use the special output.  
Able to select from [Not used], [5-output], [Limit output], [Limit output user setting], [All GO] or [All limit output].

### ■ 17 Limit output HH side criterion position setting (normal amplifier without analog output)

17. PHH

Set the HH position for the limit output.

### ■ 18 Limit output LL side criterion position setting (normal amplifier without analog output)

18. PLL

Set the HH position for the limit output.

### ■ 16 Analog range setting (analog amplifier)

16. RnG

Set how to set the analog output range from [Default] or [Free range settings].

### ■ 17 Free range settings (Hi) (analog amplifier)

17. RnH

Set the value which will show 20mA.  
Only available when **16. RnG** is set to [Free range settings].

### ■ 18 Free range settings (Lo) (analog amplifier)

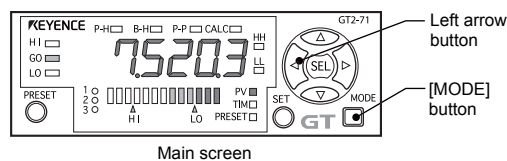
18. RnL

Set the value which will show 4mA.  
Only available when **16. RnG** is set to [Free range settings].

## Additional function setting mode

### ■ How to enter the Function setting mode

1. Press the MODE and left arrow button at the same time for at least 2 seconds.



2. Press the left/right arrow button and select the function number.

### ■ 20 Select preset data

20. Prd

Select which data the preset should work to, from [R.V. value] or [P.V. value].

### ■ 21 Store preset value

21. PrG

Set if the preset data should be memorized or not.

### ■ 22 Preset point

22. PrPt

Select if the preset point should be common for all banks or individual for each bank.

### ■ 23 Power save function

23. Eco

Select from [OFF], [ECO Half] or [ECO all].