Magnescale
SPEED X PRECISION

LH70 Change of display resolution (polarity)

The operation method for changing the display resolution differs depending on the purpose and conditions of the change.
Select the purpose and conditions to be changed from the table below and perform the operation.

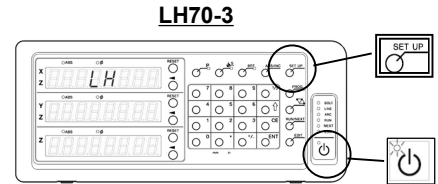| Purpose of change	Operation	Explanation
Change the measurement unit resolution	Basic settings ⇒ Measurement unit resolution ⇒ Change	Change the length measurement unit resolution in the basic settings. And check the display resolution in the detailed settings.
Change the polarity for each input axis while using the addition function	Basic settings ⇒ Addition display ⇒ Change	Change the selection of addition display in the basic settings
Change the display resolution	Detailed settings ⇒ Display resolution ⇒ Change	Change the display resolution in the detailed settings
Change the display polarity (Counting direction is reversed)	Detailed settings ⇒ Display resolution ⇒ Change polarity	Change the display resolution in the detailed settings
Diameter display (double count value)	Detailed settings ⇒ Display resolution ⇒ Diameter display	Change to diameter display with display resolution in the detailed settings

* If you do not know the output resolution of the measurement unit, refer to the separate "Initial setup manual".

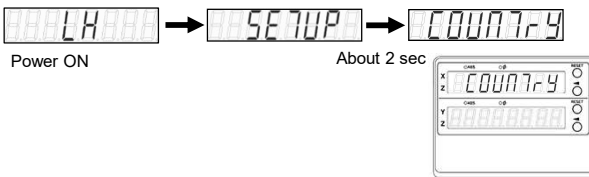## Basic settings ⇒ Measurement unit resolution ⇒ Change

LH70-3

①
Set to basic settings mode.

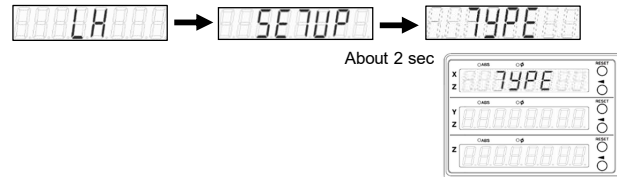Turn [⏻] key "ON" while the AC adapter is energized.

Press and hold [SET UP] key for 3 seconds after the lamp changes from blinking to off.

For LH70-1, LH70-2

LH → SETUP → COUNTrY
Power ON   About 2 sec

For LH70-3

LH → SETUP → TYPE
          About 2 sec

②
Press [○⇧] key once while the display is COUNTrY.

The display will be SIG rES (measurement unit resolution).

Press [○◁] key to check the current measurement unit resolution.

②
Press [○⇧] key two or three times while the display is TYPE.

The display will be SIG rES (measurement unit resolution).

Press [○◁] key to check the current length measurement unit resolution.

③
Press [○◁] key of the axis you want to change and select the measurement unit resolution.

When you have made your selection, press [ENT] key to save your settings.

④
Switch from basic settings to normal count mode.

Press [RESET] key once and the display will change to CANCEL.

Press [○◁] key once and the display will change to FINISH.

⑤
Press [ENT] key once to automatically switch to advanced settings mode.

The display will be dSP rES.

Press [RESET] key, the display becomes the normal display.

Display of measurement unit resolution (LH70-3)

Input 1   X 0.5 u
Input 2   Y 0.5 u
Input 3   Z 0.5 u

Selection of measurement unit resolution

| Standard	Expansion
05 u	005 u
01 u	2 u
00.1000	20 u
000.100	25 u
0000.10	50 u
000001	100 u
10 u	0.10000
5 u	[EDIT] Extended key
1 u	

Basic settings ⇒ Addition display ⇒ Change   (LH70-3 only)

①

Set to basic settings mode.

Turn ⏻ key "ON" while the AC adapter is energized.

Press and hold [SET UP] key for 3 seconds after the lamp changes from blinking to off.

The display will be `TYPE` .

`LH` → `SETUP` → `TYPE`

About 2 sec

②

With the display `TYPE` , press [↑] key once.
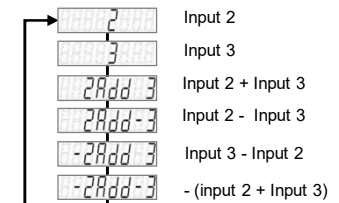
The display will be `Add` (2-axes addition / subtraction function).

    * If the display does not change to "Add", "LATHE" is not selected in "TYPE".

Press [◄] key to select the addition display.

③

Press [◄] key to select the conditions for the addition display.

When you have made your selection, press [ENT] key to save your settings.

Selection of additive display (LH70-3)

`2Add-3`

④

Switch from basic settings to normal count mode.

Press [RESET] key once and the display will change to `CANCEL` .

Press [◄] key once and the display will change to `FINISH` .

Addition display (input conditions to be displayed on the Z axis)

|	
`2`	Input 2
`3`	Input 3
`2Add 3`	Input 2 + Input 3
`2Add-3`	Input 2 - Input 3
`-2Add 3`	Input 3 - Input 2
`-2Add-3`	- (input 2 + Input 3)

⑤

If you press [ENT] key once, it will automatically enter the advanced settings mode and `dSP rES` display.

Press [RESET] key to enter normal count mode.

Detailed settings ⇒ Display resolution ⇒ Change

①

Set to the detailed settings mode.

Press [SET UP] key while the normal count mode is energized.

The display will be `dSP rES` . (Detailed settings mode)

②

Press [◄] key once to display the display resolution of each axis.

Press [◄] key of the axis you want to change and select the resolution.

Please note that the ○∅ lamp lights up once every two times and the diameter display is set.

When you have made your selection, press [ENT] key to save your settings.

Press [RESET] key to return to the normal counting state.

Selection of display resolution

Expansion

NOTE 1 — **Length display**
`10 u`
`5 u`
`1 u`
`05 u`
`01 u`

NOTE 2 — **Angle display**
`00 1000`
`000 100`
`0000 10`
`000001`

Expansion
`100 u`
`50 u`
`25 u`
`20 u`
`2 u`
`005 u`
`0 10000`

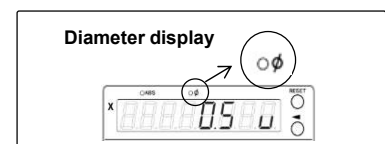[EDIT]

Extended key

NOTE 1: Selection of a value smaller than the basic settings measurement unit resolution is not displayed.

NOTE 2: The angle display can be set when the angle resolution is selected in the basic settings.

Diameter display

`05 u`

## Detailed settings ⇒ Display resolution ⇒ Change polarity

①

Set to advanced mode.

Press [SET UP] key in normal count mode

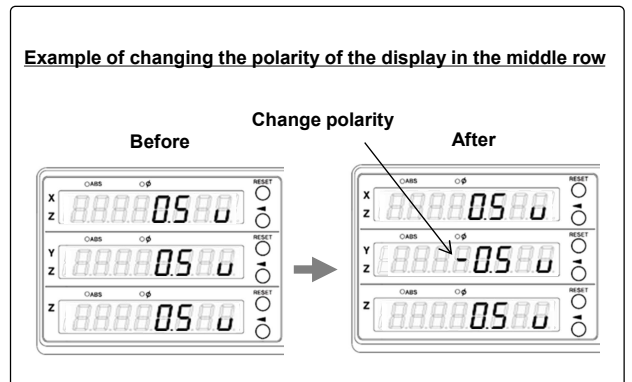The display will be ⟨ dSP rES ⟩ .

②

Press [◁] key once to get the display resolution of each axis.

Press [◁] key for the axis for which you want to change the polarity,

 and then press [+/-] key.

When you have made your selection, press [ENT] key to save your settings.

Press [RESET] key to return to the normal counting state.

Example of changing the polarity of the display in the middle row

Change polarity

Before   After

Detailed settings ⇒ Display resolution ⇒ Diameter display

①

Set to advanced mode.

Press [SET UP] key in normal count mode

The display will be ⟨ dSP rES ⟩ .

②

Press [◁] key once to get the display resolution of each axis.

Press [◁] key of the axis you want to change to the diameter display and turn on the [○∅] lamp.

If the resolution changes, press [◁] key again.

When you have made your selection, press [ENT] key to save your settings.

Press [RESET] key to return to the normal counting state.

Diameter display