

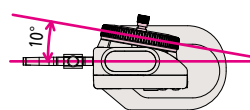
Height Gage

A standard measuring tool of industry

Digimatic Height Gage SERIES 192 — Standard Type with SPC Data Output

- Easy-to-use standard type.
- Double-column structure ensures high measuring accuracy.
- Ergonomic base fits comfortably in the hand.
- Character height of the LCD display has been increased (10mm to 11mm) and a high-contrast LCD display unit adopted, so that readability is improved.
- Allows integration into statistical process control and measurement systems. Refer to page A-3.

- Inclined handle improves slider ergonomics.



- Battery: **SR44** (1 pc), **938882**. For initial operational checks (standard accessory)
- Battery life is 3,500 hours in continuous use.
- Carbide-tipped long scribe No. 07GZA000 is provided as a standard accessory. (Standard accessory: scribe clamp No. 05GZA033)
- For precision Black Granite Surface Plates, refer to page E-51.



192-613-10

SPECIFICATIONS

Metric

Order No.	Range	Resolution	Accuracy*	Repeatability	Max. response speed	Height	Mass
192-613-10	0 - 300mm	0.01mm (0.005mm)	±0.02mm	0.01mm	500mm/s	475mm	4.7kg
192-614-10	0 - 600mm		±0.05mm			802mm	8.3kg
192-615-10	0 - 1000mm		±0.07mm			1228mm	15.7kg

* Excluding the quantizing error of ±1 count.

Inch/Metric

Order No.	Range	Resolution	Accuracy*	Repeatability	Max. response speed	Height	Mass
192-630-10	0 - 12"	.0005"/0.01mm (.0002"/0.005mm)	±.001"	0.01mm	500mm/s	475mm	4.7kg
192-631-10	0 - 18"		±.002"			649mm	7.5kg
192-632-10	0 - 24"		±.002"			802mm	8.3kg
192-633-10	0 - 40"		±.003"			1228mm	15.7kg

* Excluding the quantizing error of ±1 count.

Functions

Origin-setting (ABS measurement mode):

Any arbitrary value can be stored as the origin point.

Zero-setting (INC measurement mode):

Displayed value can be set to zero at any arbitrary position of the slider.

Origin restoration:

Previously set origin is restored when switching back to ABS mode.

Presetting (ABS INC measurement mode):

Displayed value can be set to any arbitrary value, including negative values.

Measuring direction

Measuring direction can be switched at the press of a button.

Data hold

Display value can be held. Reverts to ABS or INC mode when cancelled.

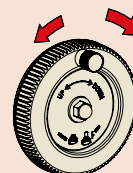
Alarm: Error message is displayed when overflow or overspeed of displayed value arises and measurement is stopped.

Data output:

Allows integration into statistical process control and measurement systems. (Refer to page A-3.)

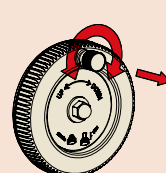
Fine and coarse height adjustment through knob and wheel combination.

Slider height adjustment wheel allows fine and coarse height adjustment.



Coarse adjustment

Push the small fine-adjustment knob in to disengage gearing and then turn the large wheel.



Fine adjustment

Pull the fine-adjustment knob out to engage gearing and then turn this knob, which then slowly turns the wheel.

Low-voltage alert:

When battery voltage becomes low, a warning appears in the display.

Probe-tip diameter compensation:

An adjustment is applied to the raw measurement data to compensate for the effect of the size of the spherical contact point used by the bidirectional touch-trigger probe.

Presetting (2 positions)

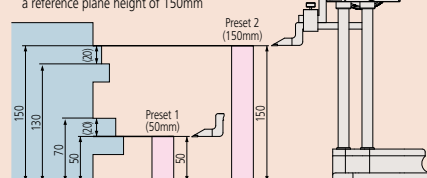
With two preset functions, two reference heights can be used relative to a surface plate.

• Example of preset 1

To measure a height of 70mm, with a reference plane height of 50mm

• Example of preset 2

To measure a height of 130mm, with a reference plane height of 150mm

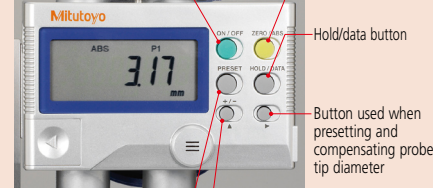


Power ON/OFF button

Height-adjustment wheel

Zero set/ABS button

Hold/data button



Preset/ probe-tip-diameter compensation mode button

Button used when presetting measuring direction and compensating probe-tip diameter

* Probe-tip-diameter compensation mode is a function provided for Order No. 192-663-10/192-664-10/192-665-10/192-670-10/192-671-10/192-672-10/192-673-10.