Height Gage

A standard measuring tool of industry

Digimatic Height Gage SERIES 192 — Multi-function Type with SPC Data Output

MeasurLink® ENABLED

Data Management Software by Mitutoyo

- Double-column structure ensures high measuring accuracy.
- Ergonomic base fits comfortably in the hand.
- A bidirectional touch-trigger probe is available as an optional accessory for 192-663-10,192-664-10,192-665-10,192-670-10,192-671-10.192-672-10 and 192-673-10.
- Better readability is provided thanks to display of measurement result with a large character height (11 mm) and high-contrast LCD.
- Inclined handle improves slider ergonomics.

- Allows integration into statistical process control and measurement systems.
 Refer to page A-3.
- Battery: SR44 (1 pc), 938882. For initial operational checks (standard accessory)
- Battery life is 3,500 hours in continuous use.
- Carbide-tipped long scriber (905200 with overall length of 150 mm) is provided as a standard accessory for 192-663-10, 192-664-10 and 192-665-10.
- For precision Black Granite Surface Plates, refer to page E-49.



Metric							
Order No.	Range	Resolution	Accuracy*	Repeatability	Max. response speed	Height	Mass
192-663-10	0 - 300 mm	0.01 mm (0.005 mm)	±0.02 mm	0.01 mm	500 mm/s	510 mm	5.7 kg
192-664-10	0 - 600 mm		±0.04 mm			802 mm	8.3 kg
192-665-10	0 - 1000 mm		±0.06 mm			1228 mm	15.7 kg
192-613-10	0 - 300 mm		±0.02 mm			475 mm	4.7 kg
192-614-10	0 - 600 mm		±0.05 mm			802 mm	8.3 kg
192-615-10	0 - 1000 mm		±0.07 mm			1228 mm	15.7 kg

^{*} Excluding quantizing error of ± 1 count

Inch/Metric	ı						
Order No.	Range	Resolution	Accuracy*	Repeatability	Max. response speed	Height	Mass
192-670-10	0 - 12 in	0.0005 in / 0.01 mm (0.0002 in / 0.005 mm)	±0.001 in	- 0.01 mm	500 mm/s	510 mm	5.7 kg
192-671-10	0 - 18 in		±0.0015 in			649 mm	7.5 kg
192-672-10	0 - 24 in		±0.0015 in			802 mm	8.3 kg
192-673-10	0 - 40 in		±0.0025 in			1228 mm	15.7 kg
192-630-10	0 - 12 in		±0.001 in			475 mm	4.7 kg
192-631-10	0 - 18 in		±0.002 in			649 mm	7.5 kg
192-632-10	0 - 24 in		±0.002 in			802 mm	8.3 kg
192-633-10	0 - 40 in		±0.003 in			1228 mm	15.7 kg

^{*} Excluding quantizing error of ±1 count



Functions

MeasurLink' ENABLED

Origin-setting (ABS measurement mode):

Any arbitrary value can be stored as the origin point. Zero-setting (INC measurement mode):

Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink (refer to page A-5 for details).

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.





Fine adjustment

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

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

Low-voltage alert:

Coarse adjustment

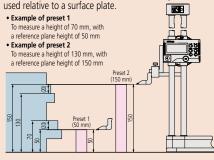
When battery voltage becomes low, a warning appears in the display.

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.



Power ON/OFF button Height-adjustment wheel

Zero set/ABS button

Hold/data button

Button used when presetting and compensating probe tip diameter

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 192-663-10/192-664-10/192-665-10/192-670-10/ 192-671-10/192-672-10/192-673-10.