

Height Gauges

SERIES 518 – QM-Height ABSOLUTE Digimatic High Precision Height Gauge

ABSOLUTE



518-227-1

- GO/±NG judgement on large LCD with backlight. High-performance Height Gauge with best-in-class accuracy and perpendicularity.
- Newly developed high accuracy and high resolution ABSOLUTE linear encoder for position detection. Once origin is set, origin setting is not required each time you turn the power ON (except in the case of a large environmental temperature change).
- GO/±NG judgement is performed by setting upper and lower tolerances. If a judgement result is out of tolerance, the display backlighting changes from green to red, so tolerance judgement can be made at a glance.
- With SPC and RS-232C output.
- Frequent-use measurement such as inside/outside diameter and pitch calculation can be implemented by icon-based commands that also support easy one-key operation.
- Inside/outside diameters can be measured via a unique method (detect the circle apex and process by tracing measurement*).
- Slider elevation knob (for travel) / wheel (for measurement) allows fine and coarse adjustment. Axial grip (detachable standard accessory) can be used to move the Height Gauge easily on the surface plate.

* Tracing measurement stroke is approx. 1 mm upwards and downwards from the measurement start point.

Standard Accessories

- 05HZA148** 5-stepped probe
12AAA715 Ball-diameter correction block
 Auxiliary grip



GO



±NG

SPECIFICATIONS

Inch/Metric		
Code No.	518-225-1	518-227-1
Range	0 - 350 mm (0 - 14")	0 - 600 mm (0 - 24")
Resolution	0.001 / 0.005 mm (.00005" / .0001" / .0002")	
Accuracy at 20°C	±(2.8+0.5L/100) μm, L = measuring length (mm)	
Repeatability*	21.8 μm	
Perpendicularity	8 μm (0 - 350 mm)	13 μm (0 - 600 mm)
Guiding method	Roller bearing	
Drive method	Manual	
Scale type	ABSOLUTE electrostatic linear encoder	
Measuring force	1.6 ± 0.5 N	
Display	LCD	
Power supply	AC adapter (optional) / battery (LR6 x 4)	
Battery operation time	Approx. 800 hours (when backlight is not used)	
	Approx. 260 hours (approx. 6 hours when using backlight)	
	Approx. 6 hours (when backlight is used in the full-time power-on mode)	
Mass	22 kg	27 kg
Operating temperature range	10 to 30°C / 20 to 80%RH (must be free from condensation)	
Storage temperature range	-10 to 50°C / 5 to 90%RH (must be free from condensation)	
Price	£1910.00	£2430.00

* Guaranteed when using the standard eccentric ø5 probe.