

Measurement example



Functions

Adjustable measuring force mechanism Origin point setting Zero setting Hold Function Lock Auto power off Measurement data output Error alarm

Optional Accessories

Order No.	Туре	Description
05CZA662	В	Connecting cable (1 m)
05CZA663	В	Connecting cable (2 m)
06AFM380B	В	USB Input Tool Direct (2 m)
02AZD790B	В	Connecting cables for U-WAVE-T (160 mm)
02AZE140B	В	Connecting cables for U-WAVE-T For foot switch

Adjustable Measuring Force



To preset the measuring force, adjust the measuring force setting scale on the thimble with the screwdriver supplied.

Constant-Measuring-Force Mechanism



- Measuring force is generated by the action of trapping a workpiece between the spindle face and the anvil.
- The constant-force unit applies the specified measuring force.
- 3 When the preset measuring force is reached, the count on the LCD is automatically held and the hold symbol appears.

(To cancel the hold, reverse the thimble more than 1/10 revolution and press the hold button.)

ABSOLUTE Digimatic Micrometers SERIES 227 — with Adjustable Measuring Force

- Digimatic micrometer dedicated to applications requiring a constant/low measuring force such as measuring wire, paper, and plastic/rubber parts.
- Measuring data can be hold at the measuring force setting. This function provides stable measurement and repeatability.
- Measuring force is adjustable (in steps) to suit various kinds of workpieces.
- Non-rotating spindle.
- Measuring faces: Carbide.



SPECIFICATIONS Metric

Ī	Order No.	Range (mm)	Resolution (mm)	Measuring force (N)	Maximum permissible error J _{MPE} (µm)	(Parallelism (µm)	Measuring force (N)	Accuracy of the selected measuring force* (N)	Repeatability of measuring force* (N)	Mass (g)
	227-201-20 227-203-20	0 - 15 15 - 30		0.5 - 2.5 (adjustable)	±2	0.3	2	0.5, 1.0, 1.5, 2.0, 2.5	± (0.1+ the selected measuring	within 0.1	300 380
_	227-205-20 227-206-20 227-207-20	0 - 10 10 - 20 20 - 30	0.001	2 - 10 (adjustable)				2, 4, 6, 8, 10	force/10) ± (0.4+ the selected measuring force/10)		345 425 415

Inch/Metric

Order No.	Range (in)	Resolution		Maximum permissible error J _{MPE} (in)	(in)	Parallelism (in)	Measuring force (N)	Accuracy of the selected measuring force* (N)	Repeatability of measuring force* (N)	Mass (g)
227-211-20	0 - 0.6	0.00005 in/ 0.001 mm	0.5 - 2.5 (adjustable)	±0.0001	0.000012		0.5, 1.0, 1.5, 2.0, 2.5	± (0.1+ the	within 0.1	300
227-213-20	0.6 - 1.2							selected measuring force/10)		380
227-215-20	0 - 0.4		2 - 10 (adjustable)				2, 4, 6, 8, 10	± (0.4+ the selected measuring force/10)	within 0.4	345
227-216-20	0.4 - 0.8									425
227-217-20	0.8 - 1.2									415

• Measurement posture: horizontal orientation only (Recommended spindle inclination: within ±3°)

SR44 (1 pc.), 938882, for initial operational checks (standard accessory)

• Battery life: Approx. 5 years under normal use

• Length standard: Electrostatic capacity absolute sensor

- Standard accessories: Setting standard, 1 pc. (except for measuring range 0 to 15 mm (0 to 0.6 in)/0 to 10 mm (0 to 0.4 in) models), Screwdriver (**210183**), 1 pc.
- * These values are guaranteed when micrometer is used in a horizontal orientation (within ±3 degrees)

DIMENSIONS



