

Measurement example



Functions

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

Optional Accessories

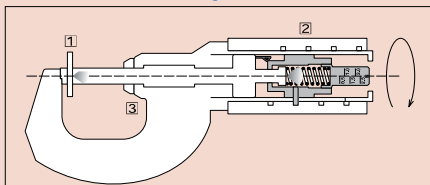
Order No.	Type	Description
264-020	—	USB Input Tool Series USB Keyboard Signal Conversion Type IT-020U
05CZA662	B	Connection cable (1 m)
05CZA663	B	Connection cable (2 m)
06AFM380B	B	USB Input Tool Direct (2 m)
02AZD730G	IP67	U-WAVE-T
02AZD880G	Buzzer	U-WAVE-T
02AZE200	—	U-WAVE-T mounting bracket
02AZD790B	B	Connection cable for U-WAVE-T (160 mm)
02AZE140B	B	Connection cable 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.
- 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 equipped with a constant/low measuring force mechanism. The measurement-value hold function automatically retains the data at a specified measuring force. (Pressing with a larger force than the specified measuring force does not affect the measurement result).
- Suitable for measuring flexible workpieces such as electric wire, paper, and rubber.
- Non-rotating spindle reduces workpiece deformation.
- Measuring faces: Carbide tipped.
- With SPC data output.



227-201-20

SPECIFICATIONS

Inch / Metric

Order No.	Range (in)	Resolution	Measuring force (N)	Accuracy* (in)	Flatness (in)	Parallelism (in)	Measuring force (N)	Accuracy of the selected measuring force*1 (N)	Repeatability of measuring force*1 (N)	Mass (g)		
227-211-20	0 - 0.6	0.00005 in/ 0.001 mm	0.5 - 2.5 (adjustable)	±0.0001	0.000012	0.00008	0.5, 1.0, 1.5, 2.0, 2.5	± (0.1+ the selected measuring force/10)	within 0.1	300		
227-213-20	0.6 - 1.2									380		
227-215-20	0 - 0.4		2 - 10 (adjustable)							± (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

Metric

Order No.	Range (mm)	Resolution (mm)	Measuring force (N)	Accuracy* (µm)	Flatness (µm)	Parallelism (µm)	Measuring force (N)	Accuracy of the selected measuring force*1 (N)	Repeatability of measuring force*1 (N)	Mass (g)		
227-201-20	0 - 15	0.001	0.5 - 2.5 (adjustable)	±2	0.3	2	0.5, 1.0, 1.5, 2.0, 2.5	± (0.1+ the selected measuring force/10)	within 0.1	300		
227-203-20	15 - 30									380		
227-205-20	0 - 10		2 - 10 (adjustable)							± (0.4+ the selected measuring force/10)	within 0.4	345
227-206-20	10 - 20											425
227-207-20	20 - 30											415

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

• Power source: SR44 battery (1 pc.), **938882** included as standard

* EMPE (ISO 3611:2023 and ASME B89.1.13-2013)

*1 These values are guaranteed when micrometer is used in a horizontal orientation (within ±3 degrees)

DIMENSIONS

