

SERIES 500 — with Dust/Water Protection Conforming to IP66/67 Level

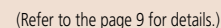
- Can be used in workshop conditions exposed to coolant, water, dust or oil.
- Easy to use - no need to wipe or clean the scale.
- Advanced design styling.

- Incorporates absolute measurement system.
- Automatic power-on/off.
- Data output function.



500-623

500-622



(Refer to the page 9 for details.)



(Refer to the page 9 for details.)



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Accuracy: $\pm 0.02\text{mm}$ ($\leq 200\text{mm}$), $\pm 0.03\text{mm}$ ($> 200\text{mm}$)
(excluding quantizing error)

Resolution: 0.01mm or .0005"/0.01mm

Repeatability: 0.01 mm

Display: LCD

Length standard:

Length standard: ABSOLUTE electromagnetic induction linear encoder

Max. response speed: Unlimited

Battery: SR44 (1 pc. / 2 pcs*), **938882**

Battery life: Approx. 3 years under normal use

Battery life: Approx. 5 years under normal use
(1 year: over 300mm models)

Dust/Water protection level: IP66 or IP67

*0 - 300mm model

Origin-set, Zero-setting, Automatic power on/off, Data output, inch/mm conversion (inch/mm models)

Alarm: Low voltage. Counting value composition error

05CZA624: SPC cable with data switch (1m)

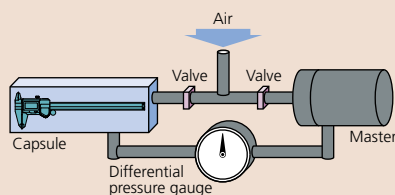
05CZA625: SPC cable with data switch (2m)



Measurement data output function is available with a water-resistant SPC cable.

Air leakage detection system used for water-proof testing

Generally, air leakage tests are performed to evaluate water resistance. Testing begins by placing a measuring tool into the capsule. Next, air with equivalent pressure is supplied to the capsule and the master, then the valves are closed. If none of the air in the capsule seeps into the measuring tool, the capsule's air pressure will remain equal to that in the master, and the differential pressure gauge will continue to point to the center. However, if some air does seep into the measuring tool, it will create an air pressure difference in the amount indicated by the differential pressure gauge. Thus, detection of air pressure differences is used as a criterion for judging leakage. Every single unit of the ABS Coolant Proof calipers and Coolant Proof micrometer is tested this way for air leakage to help ensure product quality.



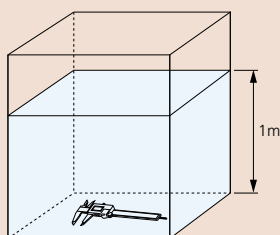
IP66 protection level

- Level 6: Dust-tight
No ingress of dust.
Protected against powerful water jet.
Water projected in powerful jets* against the enclosure from any direction shall have no harmful effects.
*Size of direct jets: uses 12.5 mm (inner diameter) nozzle emitting a 100 kPa jet of water at 100 liters per minute for at least 3 minutes from a distance of approx. 3 meters.

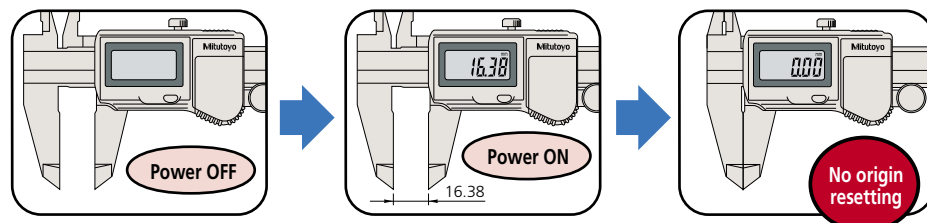


IP67 protection level

- Level 6: Dust-tight
No ingress of dust.
Level 7: Protected against the effects of temporary immersion in water.
Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed 1 meter in water under standardized conditions of pressure and time (30 min.).



Built-in ABS (absolute) scale means that these calipers are ready to use immediately after power-on without origin resetting. It's as easy as vernier caliper measurements.



SPECIFICATIONS

Metric IP66 model		
Range	Order No.	Remarks
0 - 150mm	500-632	with thumb roller
0 - 150mm	500-637	—
0 - 150mm	500-622*	with thumb roller
0 - 150mm	500-626*	—
0 - 200mm	500-633	with thumb roller
0 - 200mm	500-638	—
0 - 200mm	500-623*	with thumb roller
0 - 200mm	500-627*	—
0 - 300mm	500-634	with thumb roller
0 - 300mm	500-639	—
0 - 300mm	500-624*	with thumb roller
0 - 300mm	500-628*	—

*without SPC data output

Inch/Metric IP66 model		
Range	Order No.	Remarks
0 - 6"	500-682	with thumb roller
0 - 6"	500-672*	with thumb roller
0 - 8"	500-683	with thumb roller
0 - 8"	500-673*	with thumb roller
0 - 12"	500-684	with thumb roller
0 - 12"	500-674*	with thumb roller

*without SPC data output

Metric IP67 model		
Range	Order No.	Remarks
0 - 150mm	500-712	with thumb roller
0 - 150mm	500-716	—
0 - 150mm	500-702*	with thumb roller
0 - 150mm	500-706*	—
0 - 200mm	500-713	with thumb roller
0 - 200mm	500-717	—
0 - 200mm	500-703*	with thumb roller
0 - 200mm	500-707*	—

*without SPC data output

Inch/Metric IP67 model		
Range	Order No.	Remarks
0 - 6"	500-762	with thumb roller
0 - 6"	500-752*	with thumb roller
0 - 8"	500-763	with thumb roller
0 - 8"	500-753*	with thumb roller

*without SPC data output

DIMENSION

