

SERIES 500 — with Dust/Water Protection Conforming to IP67 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.
- With thumb roller.
- Supplied in fitted plastic case.



The diagram illustrates the process of resetting the digital depth gauge in three stages, connected by blue arrows:

- Power OFF:** The digital display is blank.
- Power ON:** The digital display shows "16.38".
- No origin resetting:** The digital display shows "0.00".

[illegible]

ABSOLUTE®
Absolute System Patented by MITUTOYO



Accuracy: Refer to the list of specifications
Resolution: .0005"/0.01mm or 0.01mm
Repeatability: .0005" / 0.01mm
Display: LCD
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
(1 year: over 12" / 300mm models)
Dust/Water protection level: IP67
*0 - 300mm model

Origin-set, Zero-setting, Automatic power on/off, Data output, inch/mm conversion (on inch/metric models only)
Alarm: Low voltage, Counting value composition error

05CZA624: SPC cable with data switch (40" / 1m)
05CZA625: SPC cable with data switch (80" / 2m)



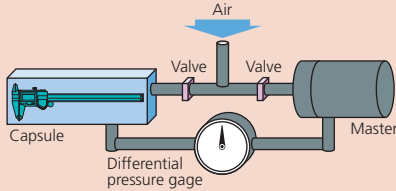
05CZA624



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

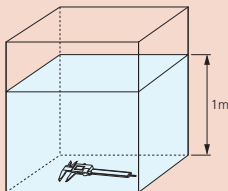
Air leakage detection system used for water-proof testing

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 gage 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 gage. 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.



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.).



SPECIFICATIONS

Metric IP67 model

Range	Order No.	Accuracy	Resolution	Remarks
0-150mm	500-702-10*	+/-0.02mm	0.01mm	
0-150mm	500-712-10	+/-0.02mm	0.01mm	
0-150mm	500-719-10	+/-0.02mm	0.01mm	dia. 1.9mm rod depth bar
0-150mm	500-721-10	+/-0.02mm	0.01mm	carbide-tipped jaws for ID measurement
0-150mm	500-723-10	+/-0.02mm	0.01mm	carbide-tipped jaws for OD & ID measurement
0-200mm	500-703-10*	+/-0.02mm	0.01mm	
0-200mm	500-713-10	+/-0.02mm	0.01mm	
0-200mm	500-722-10	+/-0.02mm	0.01mm	carbide-tipped jaws for ID measurement
0-200mm	500-724-10	+/-0.02mm	0.01mm	carbide-tipped jaws for OD & ID measurement
0-300mm	500-704-10*	+/-0.03mm	0.01mm	
0-300mm	500-714-10	+/-0.03mm	0.01mm	

*without SPC data output

Inch/Metric IP67 model

Range	Order No.	Accuracy	Resolution	Remarks
0-6"/0-150mm	500-752-10*	+/- .001"	.0005"/0.01mm	
0-6"/0-150mm	500-762-10	+/- .001"	.0005"/0.01mm	
0-6"/0-150mm	500-768-10*	+/- .001"	.0005"/0.01mm	.075" rod depth bar
0-6"/0-150mm	500-769-10	+/- .001"	.0005"/0.01mm	.075" rod depth bar
0-6"/0-150mm	500-731-10*	+/- .001"	.0005"/0.01mm	carbide-tipped jaws for ID measurement
0-6"/0-150mm	500-735-10	+/- .001"	.0005"/0.01mm	carbide-tipped jaws for ID measurement
0-6"/0-150mm	500-733-10*	+/- .001"	.0005"/0.01mm	carbide-tipped jaws for OD & ID measurement
0-6"/0-150mm	500-737-10	+/- .001"	.0005"/0.01mm	carbide-tipped jaws for OD & ID measurement
0-8"/0-200mm	500-753-10*	+/- .001"	.0005"/0.01mm	
0-8"/0-200mm	500-763-10	+/- .001"	.0005"/0.01mm	
0-8"/0-200mm	500-732-10*	+/- .001"	.0005"/0.01mm	carbide-tipped jaws for OD measurement
0-8"/0-200mm	500-736-10	+/- .001"	.0005"/0.01mm	carbide-tipped jaws for ID measurement
0-8"/0-200mm	500-734-10*	+/- .001"	.0005"/0.01mm	carbide-tipped jaws for OD & ID measurement
0-8"/0-200mm	500-738-10	+/- .001"	.0005"/0.01mm	carbide-tipped jaws for OD & ID measurement
0-12"/0-300mm	500-754-10*	+/- .0015"	.0005"/0.01mm	
0-12"/0-300mm	500-764-10	+/- .0015"	.0005"/0.01mm	

*without SPC data output

DIMENSIONS AND MASS

Unit: mm						
Range	L	a	b	c	e	Mass (g)
0 - 6" / 0 - 150mm	233	40	21	16.5	16	168
0 - 8" / 0 - 200mm	290	50	24.5	20	16	198
0 - 12" / 0 - 300mm	404	64	27.5	22	20	350

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