Digimatic Calipers with Absolute Encoders

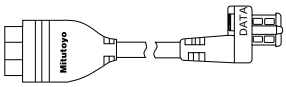
Series 500 – Featuring Position Memory and 3.5 Year Battery Life

500-171

ABSOLUTE Set 'N Forget TECHNOLOGY

Optional Accessories

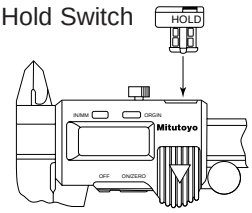
SPC Connecting Cables
No.**959149**(1m), No.**959150**(2m)



Features built-in
Data Switch

No.**959143**

Add-on
Hold Switch



MITUTOYO's new Absolute Encoder Digimatic Caliper offers special functions which allow it to always remember its measuring position even after the gage has been switched off.

- Origin: Allows setting of an origin starting point to be used as reference in subsequent measurements (generally set to closed jaw position). Once set, the Absolute Encoder caliper will switch on showing its true position from the origin point rather than 0.0000 as with standard models.
- Zero/ABS: Allows the display to be Zero-Set at any point along the slider for incremental comparison measurements. This switch will also allow return to the absolute mode and display of the true position from the origin point.

Also provided is inch/mm conversion and SPC data output. Another outstanding feature of the Absolute Encoder Digimatic Caliper is 3.5 years of use under normal working conditions from just a single SR44 battery cell. (**541980**)

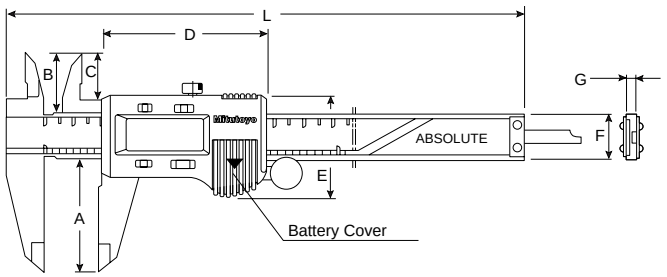
Specifications

Digimatic Calipers with Absolute Encoder

Metric (SPC output models)

Order No.	Range	LCD Resolution	Accuracy	Remarks
500-150	0–100mm	0.01mm	±0.02mm	1.9mm Round Depth Bar.
500-151	0–150mm	0.01mm	±0.02mm	
500-152	0–200mm	0.01mm	±0.02mm	
500-153	0-300mm	0.01mm	±0.03mm	
500-500-10	0–450mm	0.01mm	±0.05mm	without Depth Bar, Absolute Function Type
500-501-10	0–600mm	0.01mm	±0.05mm	without Depth Bar, Absolute Function Type

For SPC output order Connecting Cable **959149** (1m) or **959150** (2m).
Replacement Battery: **541980** (1pc), **541980-10** (10 pcs/SET)



Dimensions

Order No.	A	B	C	D	E	F	G	L
500-170, 500-195	1.57"	.83"	.65"	2.26"	1.42"	.63"	.138"	7.09"
500-171, 500-196, 500-159, 500-160, 500-175, 500-178, 500-174	1.57"	.83"	.65"	2.26"	1.42"	.63"	.138"	9.10"
500-172, 500-197, 500-163, 500-164, 500-176, 500-177	1.97"	.96"	.79"	2.26"	1.42"	.63"	.138"	11.34"
500-173, 500-193, 500-165, 500-166, 500-167, 500-168	2.52"	1.08"	.86"	2.80"	1.60"	.79"	.15"	15.87"
500-505-10	3.54"	1.85"	1.50"	3.61"	2.44"	.98"	.24"	24.80"
500-506-10	3.54"	1.85"	1.50"	3.61"	2.44"	.98"	.24"	30.70"
500-507-10	5.11"	2.36"	1.65"	4.49"	2.87"	1.26"	.31"	48.82"
500-150	1.57"	.83"	.65"	2.26"	1.42"	.63"	.138"	7.09"
500-151	1.57"	.83"	.65"	2.26"	1.42"	.63"	.138"	9.10"
500-152	1.97"	.96"	.79"	2.26"	1.42"	.63"	.138"	11.34"
500-153	2.52"	1.08"	.86"	2.80"	1.60"	.79"	.15"	15.87"
500-500-10	3.54"	1.85"	1.50"	3.61"	2.44"	.98"	.24"	24.80"
500-501-10	3.54"	1.85"	1.50"	3.61"	2.44"	.98"	.24"	30.70"

Digimatic Caliper with Absolute Encoder

Inch/Metric (SPC output Models)

Order No.	Range	LCD Resolution	Accuracy	Remarks
500-170	0-4" 0–100mm	.0005" 0.01mm	±.001"	.075" Round Depth Bar.
500-171	0-6" 0–150mm	.0005" 0.01mm	±.001"	
500-174	0–6" 0–150mm	.0005" 0.01mm	±.001"	with OD Carbide Jaw, Absolute Function Type
500-175	0–6" 0–150mm	.0005" 0.01mm	±.001"	with OD, ID Carbide Jaw, Absolute Function Type
500-178	0–6" 0–150mm	.0005" 0.01mm	±.001"	.075 Round Depth Bar, Absolute Function Type
500-172	0-8" 0–200mm	.0005" 0.01mm	±.001"	
500-176	0–8" 0–200mm	.0005" 0.01mm	±.001"	with OD Carbide Jaw, Absolute Function Type
500-177	0–8" 0–200mm	.0005" 0.01mm	±.001"	with OD, ID Carbide Jaw, Absolute Function Type
500-167	0–12" 0–300mm	.0005" 0.01mm	±.0015"	with OD Carbide Jaw
500-168	0–12" 0–300mm	.0005" 0.01mm	±.0015"	with OD, ID Carbide Jaw
500-173	0-12" 0–300mm	.0005" 0.01mm	±.0015"	
500-505-10	0–18" 0–450mm	.0005" 0.01mm	±.002"	without Depth Bar, Absolute Function Type
500-506-10	0–24" 0–600mm	.0005" 0.01mm	±.002"	without Depth Bar, Absolute Function Type
500-507-10	0–40" 0–1,000mm	.0005" 0.01mm	±.003"	without Depth Bar, Absolute Function Type

For SPC output order Connecting Cable **959149** (1m) or **959150** (2m).
Replacement Battery: **541980** (1pc), **541980-10** (10 pcs/SET)