ABSOLUTE Coolant Proof Carbon Fiber Caliper SERIES 552 — with Standard jaws

MeasurLink* ENABLED

Data Management Software by Mitutoyo

• IP66 Absolute Digital Caliper (Refer to page D-6 for details on the Absolute function.)

 Lightweight Digimatic Calipers that employ CFRP (Carbon Fiber Reinforced Plastics) in the beam.

 Allows integration into statistical process control and measurement systems for models with measurement data output connector. (Refer to page A-3.)

MeasurLink ENABLED

Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink (refer to page A-5 for details).

ABSOLUTE







552-303-10

SPECIFICATIONS

Metric		
Order No.	Range (mm)*	Accuracy (mm)
552-302-10	0 - 450 (20.1 - 470)	±0.04
552-303-10	0 - 600 (20.1 - 620)	±0.04
552-304-10	0 - 1000 (20.1 - 1020)	±0.05
552-305-10	0 - 1500 (20.1 - 1520)	±0.09
552-306-10	0 - 2000 (20.1 - 2020)	±0.12
* / \ Dii i i	at de la calenda	

Inch/Metric	ı	
Order No.	Range (in)*	Accuracy (in)
552-312-10	0 - 18 (0.504 - 18.5)	±0.002
552-313-10	0 - 24 (0.504 - 24.5)	±0.002
552-314-10	0 - 40 (1.004 - 40.5)	±0.002
552-315-10	0 - 60 (1.004 - 60.5)	±0.004
552-316-10	0 - 80 (1.004 - 80.5)	±0.005

(): Dimension in inside measurement

Note: A constant-force mechanism is used in the finger rest; however, this is only an auxiliary mechanism to avoid measurement error caused by excessive measuring force. To measure with good accuracy, use the minimum necessary measuring force for the caliper measuring faces to make sufficient contact with the workpiece. Refer to page D-40 for details.

Technical Data

Repeatability: 0.01 mmAccuracy: Refer to the list of specifications. (excluding quantizing error)
• Resolution: 0.01 mm or 0.0005 in/0.01 mm

Material of jaws: Stainless Steel Hardened

Display: ĹCD

• Scale type: ABSOLUTE electromagnetic induction linear encoder

• Max. response speed: Unlimited • Battery: SR44 (1 pc), **938882**,

for initial operational checks (standard accessory)

Battery life: Approx. 5,000 hours in continuous use
 Dust/Water protection level: IP66 (IEC60529)*

• Standard accessory: Jaw clamps (2 pcs.), 05GZA033

* Rustproofing shall be applied after use if caliper was in contact with coolant.

Functions

• Zero-setting

Data hold

Offsetting

Presetting

Data output

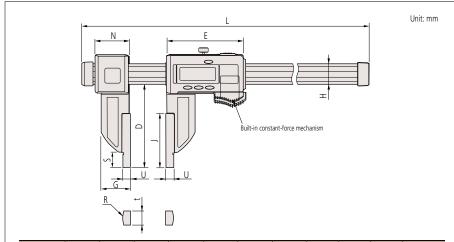
• Low-power and low-voltage alert · Counting value composition error

• Automatic power on/off, inch/mm reading

(inch/mm models)

Note: LCD display turns off after 20 minutes inactivity but the ABS scale unit origin is stored. Moving the slider restores the display.

DIMENSIONS



Range	D	E	G	Н	J	L	N	R	S	t	U	
0 - 450 mm	100	91.8	35	25	65	640	41.2	R10	18	8	10	
(0 - 18 in)	100	31.0	رر	23	03	040	41.2	KIO	10	0	(0.25 in)	
0 - 600 mm	m 100	0 - 600 mm	100 91.8	35	25	65	790	41.2	R10	18	8	10
(0 - 24 in)	100	91.0	33	23	03	790	41.2	NIU	10	0	(0.25 in)	
0 - 1000 mm	150	0 - 1000 mm	113.8	45	32	100	1230	62.8	R10	24	8	10
(0 - 40 in)	130	113.0	4)	32	100	100 123	1230 02.0	02.6	02.6 N10		0	(0.5 in)
0 - 1500 mm	150	113.8	45	32	100	1740	62.8	R10	24	8	10	
(0 - 60 in)		0 - 60 in)	113.0	45	32	100	1740	02.0	KIU	24	0	(0.5 in)
0 - 2000 mm	0 - 2000 mm	150 113.8 45	32 1	100 225	2250 62.8	62.8	62.8 R10	24	8	10		
(0 - 80 in)	130	113.0	45	32	100	2230	02.8	NTU	24	°	(0.5 in)	

Optional Accessories

For details, refer to page A-27.
• Connecting cables for IT/DP/MUX
05CZA624: SPC cable with data button (1 m)
05CZA625: SPC cable with data button (2 m)



• USB Input Tool Direct

06AFM380A: SPC cable for **USB-ITN-A** (2 m)

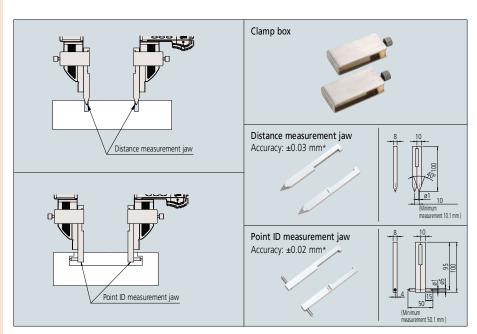
Connecting cables for U-WAVE-T
 02AZD790A: SPC cable with data button (160 mm)
 02AZE140A: SPC cable for foot switch

Optional accessories

Metric

Wethe	552-302-10, 552-155-10, 552-303-10 and 552-156-10	552-304-10, 552-305-10 and 552-306-10		
Clamp box (1 pair)	914053	914054		
Distance measurement jaw (1 pair)	914055			
Point ID measurement jaw (1 pair)	914057			

Inch/Metric					
	552-312-10, 552-165-10, 552-313-10 and 552-166-10	552-314-10, 552-315-10 and 552-316-10			
Clamp box (1 pair)	914053	914054			
Distance measurement jaw (1 pair)	914056				
Point ID measurement jaw (1 pair)	914058				



^{*} Accuracies shown in the diagrams are of each accessory and accuracy resulting in mounting them on the main body is not guaranteed.

