

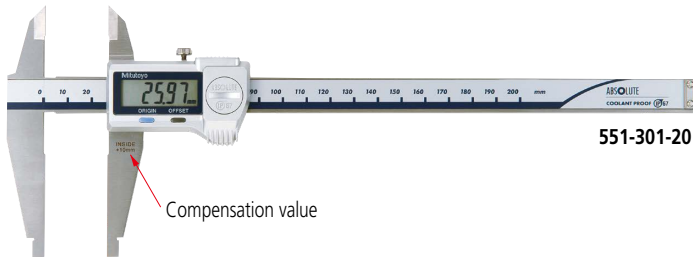
# Calipers

## ABSOLUTE Digimatic Caliper SERIES 551 — with Nib Style and Standard Jaws

- Incorporates an Absolute measurement system. No need to reset the origin after switching on. (Refer to page D-3 and D-5 for details on the Absolute function.)
- **SERIES 551:** IP67 Absolute Digimatic Caliper. (Rustproofing shall be applied after use if caliper was in contact with coolant.)
- ID measurement value: displayed value + (a compensation value displayed on the main unit). OFFSET switch allows to

input a compensation value so that the measurement value can be read directly (**Order No. 551-301-20, 551-331-20, 551-311-20 and 551-341-20**). Preset function allows to set a desired starting point (**Order No. 551-331-20 and 551-341-20**).

- Tips of the outside measurement jaw are relieved for easy measurement of thin parts.



### SPECIFICATIONS

Metric					
Order No.	Range (mm)* <sup>1</sup>	Resolution (mm)	Maximum permissible error (mm)* <sup>2</sup>		Remarks
			EMPE	SMPE	
551-301-20	0 - 200 (10.1 - 210)	0.01	±0.03	±0.03	IP67, with offset
551-331-20	0 - 300 (10.1 - 310)		±0.04	±0.04	
551-204-10	0 - 500 (20.1 - 520)		±0.06	±0.06	
551-206-10	0 - 750 (20.1 - 770)		±0.06	±0.06	
551-207-10	0 - 1000 (20.1 - 1020)		±0.07	±0.07	—

Inch / Metric					
Order No.	Range* <sup>1</sup>	Resolution	Maximum permissible error* <sup>2</sup>		Remarks
			EMPE	SMPE	
551-311-20	0 - 8 in/0 - 200 mm (0.404 - 8.4 in/10.26 - 210.16 mm)	0.0005 in/ 0.01 mm	±0.0015 in/ ±0.03 mm	±0.0015 in/ ±0.03 mm	IP67, with offset
551-341-20	0 - 12 in/0 - 300 mm (0.404 - 12.4 in/10.26 - 310.16 mm)		±0.002 in/ ±0.04 mm	±0.002 in/ ±0.04 mm	
551-224-10	0 - 20 in/0 - 500 mm (0.504 - 20.5 in/12.8 - 512.7 mm)		±0.0025 in/ ±0.06 mm	±0.0025 in/ ±0.06 mm	
551-226-10	0 - 30 in/0 - 750 mm (0.504 - 30.5 in/12.8 - 762.7 mm)		±0.003 in/ ±0.07 mm	±0.003 in/ ±0.07 mm	—
551-227-10	0 - 40 in/0 - 1000 mm (1.004 - 40.1 in/25.5 - 1025.4 mm)				

- Battery: SR44 (1 pc.), **938882**, for initial operational checks (standard accessory)
  - Scale type: ABSOLUTE electromagnetic induction linear encoder
  - Max. response speed: Unlimited
  - \*1 ( ): Inside measurement
  - \*2 Partial Surface Contact Error, EMPE and Shift Error, SMPE are terms (notations) used in ISO 13385-1:2019.
- Note: **Series 551** is not equipped with a depth bar.

### DIMENSIONS

Unit: mm

Range (mm)	B	C	D	G	S	H	t	R
0 - 200 (0 - 8 in)*	30	23.6	60	5 (5.08)*	8	16	3	5 (5.08)*
0 - 300 (0 - 12 in)*	40	32.2	90		10	20	3.8	
0 - 500 (0 - 20 in)*	56	44.9	150	10 (6.35)*	18	25	6	10 (6.35)*
0 - 750 (0 - 30 in)*	56			20	32	8	10 (12.7)*	
0 - 1000 (0 - 40 in)*	56	43.8						

\* Inch model

ABSOLUTE™

IP67

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### Measurement example



### Optional Accessories

Order No.	Type	Description
05CZA624	A	Connecting cables for IT/DP/MUX (1 m)* <sup>1</sup>
05CZA625	A	Connecting cables for IT/DP/MUX (2 m)* <sup>1</sup>
959149	C	Connecting cables for IT/DP/MUX (1 m)* <sup>2</sup>
959150	C	Connecting cables for IT/DP/MUX (2 m)* <sup>2</sup>
06AFM380A	A	USB Input Tool Direct (2 m)* <sup>1</sup>
06AFM380C	C	USB Input Tool Direct (2 m)* <sup>2</sup>
02AZD790A	A	Connecting cables for U-WAVE-T (160 mm)* <sup>1</sup>
02AZD790C	C	Connecting cables for U-WAVE-T (160 mm)* <sup>2</sup>
02AZE140A	A	Connecting cables for U-WAVE-T* <sup>1</sup> For foot switch
02AZE140C	C	Connecting cables for U-WAVE-T* <sup>2</sup> For foot switch
264-620	IP67	U-WAVE-TC* <sup>1</sup>
264-621	Buzzer	U-WAVE-TC* <sup>1</sup>
264-624	IP67	U-WAVE-TCB Transmitter* <sup>1</sup>
264-625	Buzzer	U-WAVE-TCB Transmitter* <sup>1</sup>
02AZF310	IP67	Connecting unit for U-WAVE-TC/TCB* <sup>1</sup>

\*1 For IP67 models (up to 300 mm)  
\*2 For series 551-2XX and 551-22X.