MeasurLink ENABLED
Data Management Software by Mitutoyo

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™

IP66

TÜVRheinland CERTIFIED
www.tuv.com
ID 0000022582

ABSOLUTE Coolant Proof Carbon Fiber Caliper
SERIES 552 - with Ceramic 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.)
- The zirconia-ceramic jaws make this caliper suitable for measuring moderately magnetic workpieces. However, since steel is used in the main unit, it may not be suitable for measuring strongly magnetic workpieces.

552-156-10

Technical Data

- Repeatability: 0.01 mm
- Accuracy: Refer to the list of specifications. (excluding quantizing error)
- Resolution: 0.01 mm or 0.0005 in/0.01 mm
- Material of jaws: Ceramic
- Display: LCD
- 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 (IEC 60529)*
- 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)

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

SPECIFICATIONS

Metric

Order No.	Range (mm)*	Accuracy (mm)
552-155-10	0 - 450 (20.1 - 470)	±0.04
552-156-10	0 - 600 (20.1 - 620)	

* ( ): 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.

Inch / Metric

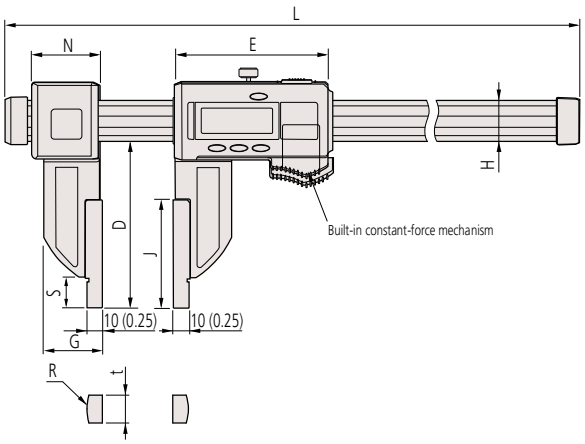
Order No.	Range (in)*	Accuracy (in)
552-165-10	0 - 18 (0.504 - 18.5)	±0.002
552-166-10	0 - 24 (0.504 - 24.5)	

* ( ): 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.

DIMENSIONS

Unit: mm



Range	D	E	G	H	J	L	N	R	S	t
0 - 450 mm (0 - 18 in)	100	91.8	35	25	65	640	41.2	R10	18	8
0 - 600 mm (0 - 24 in)	100	91.8	35	25	65	790	41.2	R10	18	8

( ): Inch/Metric type

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