

Technical Data

Scale type:	ABSOLUTE electromagnetic induction linear encoder
Max. response speed:	Unlimited
Battery:	SR44 (1 pc.), 938882
Battery life:	Approx. 5,000 hours in continuous use
Dust/water protection level:	IP66*1

*1 Rustproofing treatment to be applied after use.

Functions

ABSOLUTE system measurement:

After power is turned ON, measurement can be started without zero-setting if origin-setting was previously performed. The ABS (absolute) origin position can be changed by the ORIGIN button.

Zero-setting (INC measurement mode):

Displayed value can be set to zero at any arbitrary position of the slider for comparative measurements.

Auto ON/OFF:

The reading on the LCD disappears after this instrument is idle for a short time, but the origin point is retained. Moving the slider causes the reading on the LCD to reappear.

Data output:

Models equipped with this function have an output port for transferring measurement data to a Statistical Process Control (SPC) system.

Data hold:

By using the data hold unit (option), the displayed value can be held. This cannot be used with the data output function.

Presetting (ABS INC measurement mode):

Displayed value can be set to any arbitrary value.

Offsetting:

Automatically adds the thickness of the inside jaws to the measured value so that the result can be read directly, without calculation.

Inch/mm selection:

Switches the units of measurement (at any time).

Alerts:

In the unlikely event of a display overflow or calculation error, an error message is displayed and measurement stops. Measurement cannot continue until the error is corrected. If the battery voltage drops below a certain point, the battery indicator will turn on before measurement becomes impossible, warning the user that the battery needs to be replaced. If contamination on the surface of the scale causes a calculation error, an error message is displayed and measurement stops.

Optional Accessories

Code No.	Description
914053	Clamp (1 pair)*2
914056	Centre-to-centre jaws (1 pair)*2
914058	Point jaws*2
02AZD790A	U-WAVE-T data cable with pushbutton (160 mm)
02AZE140A	U-WAVE-T data cable with pushbutton and footswitch connection (160/500 mm)
05CZA624	SPC data cable with pushbutton (1 m)
05CZA625	SPC data cable with pushbutton (2 m)
06AFM380A	USB Input Tool Direct USB-ITN-A (2 m)

*2 Refer to page D-18 for details.

SERIES 552 – ABSOLUTE Digimatic Coolant Proof Ceramic Jaw Carbon Fibre Caliper

- A lightweight Digimatic caliper that uses CFRP (Carbon Fibre Reinforced Plastics) in the beam and jaws.
- Rustless and nonmagnetic. Suitable for measuring magnetic components.
- Zirconia ceramic contact surfaces for high resistance to wear.
- Data output function allows integration into statistical process control and measurement systems.
- Interchangeable measuring jaws available as optional accessories.

MeasurLink ENABLED
Data Management Software by Mitutoyo

ABSOLUTE

IP66



552-165-10



Specifications

Inch/Metric

Code No.	Range*3	Resolution	Accuracy*4
552-165-10	0 (20) - 450 mm/0 (.5") - 18"	0.01 mm/.0005"	±0.04 mm/±.002"
552-166-10	0 (20) - 600 mm/0 (.5") - 24"		

*3 (): Minimum dimension in inside measurement.

*4 Excluding quantizing error.

Dimensions

