

Calipers

SERIES 500 – ABSOLUTE Digimatic Caliper

Technical Data

Resolution:	0.01 mm (.0005")
Scale type:	ABSOLUTE electrostatic linear encoder
Max. response speed:	Unlimited
Battery:	SR44 (1 pc.), 938882
Battery life:	Approx. 5 years under normal use (20,000 hours for continuous 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.

Incremental measurement:

Display can be set to zero at any arbitrary position for comparative measurements.

Scale contamination detection:

Contamination on the surface of the scale is detected and an error message (ErrC) is displayed.

Low-voltage alert:

If the battery voltage becomes low, a "B" appears in the display to alert the user before measurement is no longer possible. A battery change advisory alert precedes this alert.

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.

Optional Accessories*

Code No.	Description	Price
264-621	U-WAVE-TC transmitter	£203.00
264-625	U-WAVE-TCB transmitter	£203.00
959143	Data hold unit	£21.30
959149	SPC data cable with pushbutton (1 m)	£37.50
959150	SPC data cable with pushbutton (2 m)	£42.70
02AZF300	U-WAVE-TC connection unit	£65.10
06AFM380C	USB input tool direct USB-ITN-C (2 m)	£121.00

* Only for models with data output function.

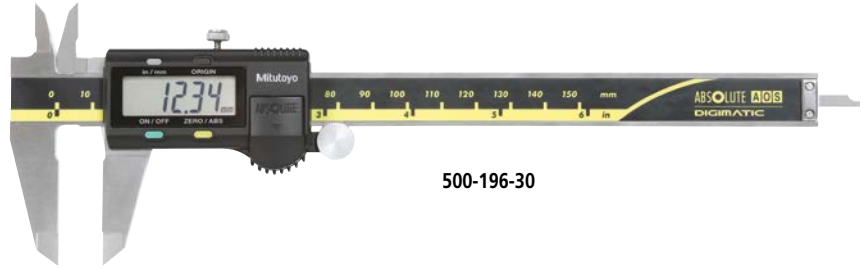


U-WAVE transmitter with buzzer fitted to a Digimatic caliper.

- The ZERO/ABS button allows the display to be Zero-Set at any slider position along the scale for comparison measurements. This button will also allow return to the absolute (ABS) mode and display of the true position from the origin (usually jaws closed point).
- Large and clear LCD readout with 20,000 hours battery life.
- Smooth slider movement makes for comfortable operation.
- Can measure outside and inside dimensions, depth, and steps.
- Carbide-tipped jaw calipers give the longest life when measuring rough finished parts, castings, grinding wheels, etc.
- Data output function allows integration into statistical process control and measurement systems.

MeasurLink ENABLED
Data Management Software by Mitutoyo

ABSOLUTE



500-196-30

Specifications

Inch/Metric

Code No.	Range	Max. permissible error		Remarks	Price
		EMPE	SMPE		
With SPC data output					
500-171-30	0 - 150 mm (0 - 6")	±0.02 mm (.001")	±0.04 mm (.002")	—	£174.00
500-174-30				Carbide-tipped jaws for outside measurement	£284.00
500-175-30	0 - 200 mm (0 - 8")	±0.02 mm (.001")	±0.04 mm (.002")	Carbide-tipped jaws for outside and inside measurement	£424.00
500-172-30				—	£215.00
500-176-30				Carbide-tipped jaws for outside measurement	£299.00
500-177-30	0 - 300 mm (0 - 12")	±0.03 mm (.0015")	±0.05 mm (.0025")	Carbide-tipped jaws for outside and inside measurement	£478.00
500-173-30				—	£390.00
500-167-30				Carbide-tipped jaws for outside measurement	£577.00
500-168-30				Carbide-tipped jaws for outside and inside measurement	£714.00
Without SPC data output					
500-196-30	0 - 150 mm (0 - 6")	±0.02 mm (.001")	±0.04 mm (.002")	—	£124.00
500-159-30				Carbide-tipped jaws for outside measurement	£268.00
500-160-30	0 - 200 mm (0 - 8")	±0.02 mm (.001")	±0.04 mm (.002")	Carbide-tipped jaws for outside and inside measurement	£385.00
500-197-30				—	£178.00
500-163-30				Carbide-tipped jaws for outside measurement	£275.00
500-164-30	0 - 300 mm (0 - 12")	±0.03 mm (.0015")	±0.05 mm (.0025")	Carbide-tipped jaws for outside and inside measurement	£462.00
500-193-30				—	£356.00
500-165-30				Carbide-tipped jaws for outside measurement	£512.00
500-166-30				Carbide-tipped jaws for outside and inside measurement	£700.00

Note: Partial Surface Contact Error, EMPE and Shift Error, SMPE are terms (notations) used in ISO 13385-1:2019.

Dimensions

