MeasurLink<sup>®</sup> 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).

## RSOLUIE



An inspection certificate is supplied as standard. Refer to page U-11 for details.

#### **Functions**

- Calculation  $f(x') = Ax' + B + Cx'^{-1}$ (x' = x + offset)
- Peak detection (MAX/MIN)
- Runout value Hold (difference between max. and min. value)
- Peak detection sampling rate (Switchable) 10 times/s (FAST Mode OFF) 50 times/s (FAST Mode ON)
- Zero-setting (INC system)
- Preset (ABS system)
- Tolerance judgment (P1, P2, P3, and INC can be stored)
- Analog bar resolution selectable
- Key lock
- Display hold (when external device is connected)
- Data output
- External PC setting input
- Display rotation (330°)
- Low battery voltage alarm display
  Error alarm display
- Resolution switching\*

		5					
Resolution (mm)				Resolution (inch)			
0.0002	0.005	0.1		0.00001	0.0002	0.005	
0.0005	0.01	0.2		0.00002	0.0005	0.01	
0.001	0.02	0.5		0.00005	0.001	0.02	
0.002	0.05	1		0.0001	0.002	0.05	

\* Since the calculation resolution is one micrometer (0.001 mm), using sub-micrometer resolution settings may result in the 4th-place digit being unreliable, particularly when B is set to a very low value and C = 0. It does not change at all with certain combinations of calculation coefficient (for example, A = 1, B = C = 0). The 3rd-place digit representing micrometers (if displayed) is always reliable.

#### **Optional Accessories**

- Lifting
- 21EZA198 (ISO/JIS/DIN Type), 21EZA199 (ASME/ANSI/AGD Type) Lifting lever 21EZA105 (ISO/JIS/DIN Type), Lifting knob 21EZA150 (ASME/ANSI/AGD Type)
- Lifting cable 540774 SPC Cable:
- 905338 (1 m)
- 905409 (2 m)
- USB Input Tool Direct (2 m): 06AFM380F
- Input Tool Series IT-016U (USB Keyboard Signal Conversion Type): 264-016-10 IT-007R (RS-232C Communication Conversion Type): 264-007
- Refer to page F-66 for details. Connecting Cables for U-WAVE-T (160 mm): 02AZD790F

For foot switch: 02AZE140F Refer to page F-66 for details.

- Digimatic Mini-Processor DP-1VA LOGGER: 264-505 Parameter setup kit: 21EZA313
- Note: Parameter setting software (can be downloaded for free from the Mitutoyo website) is also required.
- · Contact points for Mitutoyo's dial indicators (Refer to pages F-57 to F-60 for details.)
- Measuring stands (Refer to pages F-84 to F-92 for details.)

# **Digimatic Indicators**

Comparison measuring instruments which ensure high quality, high accuracy and reliability.

#### **ABSOLUTE Digimatic Indicator ID-C** SERIES 543 — Calculation Type

 Calculation function operates on spindle displacement.

Entering the appropriate formula factors for a fixture dedicated to the application enables direct measurement readout, thereby eliminating any need for the conversion tables previously needed for those applications where fixtures are typically used.

- Simple operation of many functions with five buttons and status icons.
- Wide LCD and new analog bar graph are now standard on all models.

**MeasurLink**<sup>®</sup> ENABLED Data Management Software by Mitutoyo

- The ABS (absolute) scale restores the last origin position\*1 automatically when the indicator is turned on, and realizes high reliability by eliminating over-speed errors.
- By using the parameter setup kit (optional) and the dedicated software, the functions and the parameters can be configured using a computer.
- \*1 Regarding origin setting, refer to "Origin Setting of Digimatic Indicators" on page F-25.



### SPECIFICATIONS

Order No.	Range (mm)	Resolution (selectable)	Accuracy*2 (mm)			Measuring force (N)	Dower cupply	Battery life	Net weight
order No.			Overall* <sup>3</sup>	Hysteresis	Repeatability	(N) (N)	rower supply	(normal 'use)*5	Net weight (g)
543-340B	12.7	12 steps*5	0.003	0.002	0.002	1.5 or less	CR2032 × 1 pc.	Approx. 1 year	170
543-590B	25.4					1.8 or less*4			190
543-595B	50.8		0.006			2.3 or less*4			260

#### Inch/Metric

6	Order No.	Range	Resolution (selectable)	Accuracy* <sup>2</sup>			Measuring force	Power supply	Battery life	Net weight
``				Overall* <sup>3</sup>	Hysteresis	Repeatability	(N)°	Tower supply	Battery life (normal use)*5	(g)
,	543-341B	0.5 in	12 steps*5	±0.0001 in /0.003 mm		0.0001 in /0.002 mm	1.5 or less		1 pc. Approx. 1 year	170
5	543-342B	/12.7 mm						CR2032 × 1 pc.		170
5	543-591B	1 in					1.8 or less*4			190
5	543-592B	/25.4 mm								190
5	543-596B	2 in		±0.00025 in /0.006 mm			2.3 or less* <sup>4</sup>			260
5	543-597B	/50.8 mm								200

\*2 Quantizing error of ±1 count is excluded. Valid for resolution set to 0.001 mm/0.00005 inch and coefficients A=1, B=0 and C=0. \*3 Overall magnification and linearity.

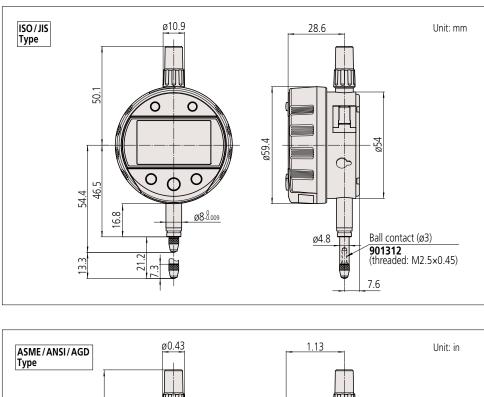
\*4 Applies for a spindle orientation between the spindle pointing vertically downward to the spindle horizontal \*5 Applies only if not connected to a data processor. Battery life depends on use of the indicator. Use the above value as a guide only. Note: Flat back type only.

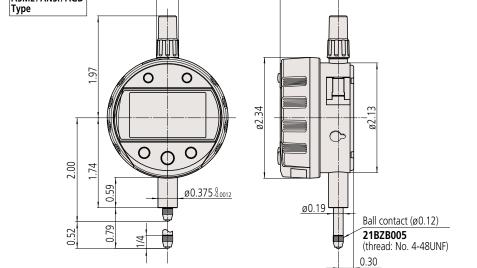




## **Digimatic Indicators**

Comparison measuring instruments which ensure high quality, high accuracy and reliability.





## DIMENSIONS

