



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

### Functions

- Peak value hold (maximum and minimum value)
- Runout value Hold (difference between maximum/minimum values)  
Note: Peak detection
  - 1) Sampling rate: 50 readings/sec
  - 2) Capturing speed: 50 μm/sec (max)
- Zerose (INC system)
- Preset function (ABS system)
- Counting direction switching
- Tolerance judgment (P1, P2, P3, and INC can be stored)
- Resolution selection
- Simple calculation f(x)=Ax
- Analog bar resolution selection
- Key lock
- in/mm conversion (inch/mm models)
- Display hold (when external device is connected)
- Data output
- External PC setting input
- Display rotation (330°)
- Low battery voltage alarm display
- Error alarm display

### Optional Accessories

- Lifting Lifting lever
  - 21EZA198 (ISO/JIS/DIN Type)
  - 21EZA199 (ASME/ANSI/AGD Type)
- Lifting cable 540774
- Lifting knob
  - 21EZA105 (ISO/JIS/DIN Type)
  - 21EZA150 (ASME/ANSI/AGD Type)
- 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.



Parameter setup kit

Parameter setting software



- Contact points for Mitutoyo's dial indicators (Refer to pages F-57 to F-60 for details.)
- Interchangeable backs for 2 series (Refer to page F-61 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 — Peak-Value Hold Type

- Run-out/MAX-MIN Hold function enables GO/±NG judgment\*1 for peak or difference values.
- Simple selection of many functions with five buttons and status icons.
- Wide LCD and new analog bar graph are now standard on all models.
- Sampling is performed fifty times per second for accurate detection of maximum and minimum values.
- The ABS (absolute) scale restores the last origin position\*2 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.
- Equipped with a data output port that enables incorporation into measurement networking and statistical process control systems (refer to page A-3).

\*1 Tolerance judgment results cannot be output.  
\*2 Regarding origin setting, refer to "Origin Setting of Digimatic Indicators" on page F-25.



543-300/543-300B

### SPECIFICATIONS

Order No. (w/lug, flat-back)	Range (mm)	Resolution (mm)	Accuracy*3 (mm)			Power supply	Battery life (normal use)*5	Net weight (g)
			Overall*4	Hysteresis	Repeatability			
543-300	12.7	0.001/0.01	0.003	0.002	0.002	CR2032 × 1 pc.	Approx. 1 year	180
543-300B								170

Order No. (w/lug, flat-back)	Range	Resolution	Accuracy*3			Power supply	Battery life (normal use)*5	Net weight (g)
			Overall*4	Hysteresis	Repeatability			
543-301	0.5 in/12.7 mm	0.00005/0.0001/0.0005 in /0.001/0.01 mm	±0.00010 in /0.003 mm	0.00010 in /0.002 mm	0.00010 in /0.002 mm	CR2032 × 1 pc.	Approx. 1 year	180
543-301B								170
543-302								195
543-302B								170

\*3 Quantizing error of ±1 count is excluded.  
\*4 Overall magnification and linearity.  
\*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: Products with an Order No. suffixed "B" have a flat back.

# Digimatic Indicators

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

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™**



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## DIMENSIONS

