



Functions

- Peak detection (MAX/MIN)
- Runout (MAX - MIN) Hold
- Note: Peak detection
 - 1) Sampling rate: 50 readings/s
 - 2) Capturing speed: 50 $\mu\text{m/s}$ (max.)
- Zeroret (INC system)
- Preset function (ABS system)
- Measuring direction switching
- Tolerance judgment (3 pairs of ABS, INC memory function)
- Resolution selection
- Simple calculation $f(x) = Ax$
- Analog bar resolution selection
- Key lock
- in/mm conversion (inch/mm type)
- Display hold (when no external device is connected)
- Data output
- External PC setting input
- Display rotation (330°)
- Low battery voltage alarm display
- Error alarm display

Optional Accessories

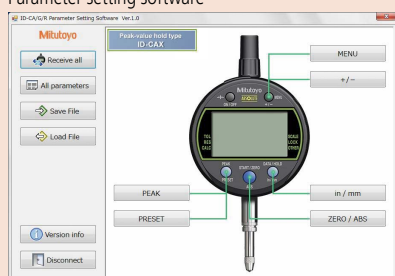
- Lifting
 - Lifting lever **21EZA198**
 - Lifting knob **21EZA105**
- SPC Cable:
 - 905338** (1 m)
 - 905409** (2 m)
- USB Input Tool Direct (2 m) : **06AFM380F**
- Input Tool Series
 - IT-020U** (USB Keyboard Signal Conversion Type): **264-020**
 - IT-007R** (RS-232C Communication Conversion Type): **264-007**
- Connecting Cables for **U-WAVE-T** (160 mm):
 - 02AZD790F**
 - For foot switch: **02AZE140F**
- 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



Digimatic Indicators

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.
- Five buttons, status icons, and clear button indications allow for easy operation of a wide variety of functions.
- Wide LCD and new analog bar graph are now standard on all models.
- 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 Refer to "Origin Setting of Digimatic Indicators" on page F-25.



543-300-10 / 543-300B-10

SPECIFICATIONS

ISO/JIS type

ASME/ANSI/AGD type

Metric											
Order No. (w/lug, flat back)	Range (mm)	Resolution (mm)	Maximum permissible error (mm)			Measuring force MPL (N)	Power supply	Battery life (normal use)* ²	Net mass (g)		
			MPE _E * ¹	Hysteresis MPE _H	Repeatability MPE _R						
543-300-10	12.7	0.001/ 0.01 (selectable)	0.003	0.002	0.002	1.5 or less	CR2032x1 pc.	Approx. 1 year	180		
543-300B-10 * ³									170		

Inch / Metric

Order No. (w/lug, flat back)	Range	Resolution	Maximum permissible error			Measuring force MPL (N)	Power supply	Battery life (normal use)* ²	Net mass (g)
			MPE _E * ¹	Hysteresis MPE _H	Repeatability MPE _R				
543-301-10	0.5 in/ 12.7 mm	0.00005/ 0.0001/ 0.0005 in, 0.001/0.01 mm (selectable)	±0.00010 in /0.003 mm	0.00010 in /0.002 mm	0.00010 in /0.002 mm	1.5 or less	CR2032x1 pc.	Approx. 1 year	180
543-301B-10 * ³									170
543-302-10									195
543-302B-10 * ³									170

*1 Error of indication for the total measuring range

*2 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.

*3 Flat back

DIMENSIONS

