





Functions

- Minimum value detection Note: Peak detection
 - 1) Sampling rate: 50 readings/s
 - 2) Capturing speed: 50 µm/s (max.)
- Preset (3 Preset values can be stored)
- Tolerance judgment
- (3 sets of upper and lower limits can be stored)
 Resolution selection
- Analog bar resolution selection
- Key lock
- Display hold (when no external device is connected)
- · Data saving/calling
- (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

- 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.

The ABSOLUTE Digimatic Bore Gage



ABSOLUTE Digimatic Bore Gages, which integrate the display with a bore gage measuring unit, are also available. Refer to pages C-47 and C-48 for details.



ABSOLUTE Digimatic Indicator ID-C **SERIES 543 — Bore Gage Type**

- Dedicated to inside measurement with minimum-value Hold and tolerance judgment functions*1.
 - Use together with a Mitutoyo bore gage (refer to pages C-29 to C-46 for details).
- 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.
- Can store up to three sets of master reference values and tolerances, alleviating the need for multiple settings to master gages.
- 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.



SPECIFICATIONS

Metric SO/JIS type ASME/ANSI/AGD type									
Order No.	Range (mm)	Resolution (mm)	Maximum permissible error (mm)			Measuring	D	Dattan, life	Not
			MPEE*1	Hysteresis MPE _H	Repeatability MPE _R	force MPĽ (N)	Power supply	Battery life (normal use)*2	Net mass (g)
543-310B-10	12.7	0.001/0.01 (selectable)	0.003	0.002	0.002	1.5 or less	CR2032 ×1 pc.	Approx. 1 year	170

Inch/Metric Inch/M										
			Resolution	Maximum permissible error			Measuring	D	Dattan Ilfa	Not or or
	Order No. R	Range		MPE _E *1	Hysteresis MPE _H	Repeatability MPE _R		Power supply	Battery life (normal use)*2	Net mass (g)
	543-311B-10	0.5 111/	0.00005/0.0001/ 0.0005 in, ±0.00010 in	0.00010 in	0.00010 in	1 E or loss	CR2032	Approx 1 year	170	
	543-312B-10		0.001/0.01 mm (selectable)	/0.003 mm	/0.002 mm	/0.002 mm	1.5 of less	×1 pc.	Approx. 1 year	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. Note: Flat-back type only.

F

DIMENSIONS





