ABSOLUTE Digimatic Indicator ID-C

SERIES 543 — Calculation Type





Technical Data

Accuracy: Refer to the list of specifications

Resolution: 12 Steps

.00005/.0001/.0005" 0.001/0.01mm

Display: LCD

Length standard: ABSOLUTE electrostatic capacitance-type

linear encoder

Max. response speed: Unlimited

Measuring force: Refer to the list of specifications CR2032 (1 pc.), 05SAA217 Battery life: Approx. 12 months under normal use

Equivalent to IP-42*1 IP Rating:

Alarm:

Key Lock, Parameter Lock, PC-USB Input, Analog Bar, FAST measurement frequency, Preset (up to 3 values), Tolerance Judgment , Peak Detection , Calculation, inch/mm conversion (on inch/metric models only), Counting direction switching, Data Output

Low voltage, Counting value composition error, Over-flow error, Tolerance limit setting error

Optional Accessories 905338: Connecting Cable (1m) Connecting Cable (2m) 905409: 21EZA313: Parameter Setting USB Cable

21EZA198: Spindle lifting lever (12.7mm ISO/JIS type) 21EZA199: Spindle lifting lever (12.7mm ASME/AGD type) 21EZA105: Lifting Knob (12.7mm/.5" ISO/JIS Models) 21EZA150: Lifting Knob (12.7mm/.5" ASME/AGD Models) 21EZA197: Lifting Knob (for 25.4/1"mm models) 21EZA200: Lifting Knob (for 50.8/2"mm models)

Spindle lifting cable 540774: Backs (See page F-33.) Contact points (See page F-34.)

FEATURES

- The new Calculation-Type Digimatic Indicator features both a Key-Lock and Parameter-Lock to prevent accidental changing of settings
- Improved parameter setting software makes easy to set all available parameters, and determine and upload the proper coefficients for calculation. (optional)
- Fast measurement frequency allows the user to increase the number of readings per second from 10 to 50, allowing higher accuracy measurements of TIR and MAX/MIN.
- An analog bar provides easy-to-read values when scanning for Max, Min, and TIR Values.
- The Absolute Digimatic indicator performs internal calculations using the formula Ax+B+Cx-1 (assuming spindle displacement as x) while the specified coefficients A, B and C can be set with respect to the purpose of measurement or dimensions of the fixtures. This unique features allows you to read your measurements directly, without the need for conversions.



SPECIFICATIONS

ISO/JIS type ANSI/AGD type

Inch/Metric Stem dia. 3/8" #4-48 UNF Thread

Resolution	Range	Order No.*	Model	Accuracy	Measuring Force
.00005/.0001/.0005"	.5"/12.7mm	543-342B	ID-C112REXB	±.00010"/0.003mm	1.5N or less
0.001/0.01mm	1"/25.4mm	543-592B	ID-C125REXB	±.00010"/0.003mm	1.8N or less
Selectable	2"/50.8mm	543-597B	ID-C150REXB	±.00025"/0.006mm	2.3N or less

Inch/Metric Stem ø 8mm, M2.5 x 0.45 Thread

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		2"/50.8mm	543-596B	ID-C150RMXB	±.00025*/0.006mm	2.3N or less

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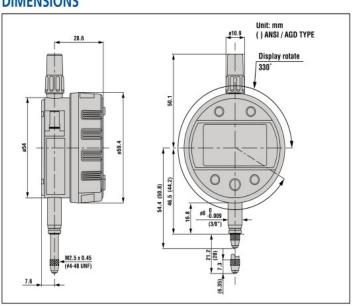
^{*}Flat back

APPLICATIONS



- Various fixtures suited for individual workpieces can be prepared.
- · Measuring accuracy is subject to fixture accuracy

DIMENSIONS





^{*1} A protection class indication (IP=International Protection) is based on the IEC 60529 /DIN40050 part 1/JIS D0207, C0920. The level indicated is valid only if the output connector cap is installed.