



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 Battery: CR2032 (1 pc.), **055AA217** Battery life: Approx. 12 months under normal use

IP Rating: Equivalent to IP-42*1

Function

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

Alarm:

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

Optional Accessories

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

21EZA198: Spindle lifting lever (12.7mm ISO/JIS type) 21EZA199: Spindle lifting lever (12.7mm ASME/AGD type)

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

APPLICATIONS



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

ABSOLUTE Digimatic Indicator ID-C

SERIES 543 — Calculation Type

FEATURES

- The new Calculation-Type Digimatic Indicator features both a Key-Lock and Parameter-Lock. This is designed to prevent accidental changing of settings during operation.
- Improved parameter setting software makes it even easier to set all
 of the 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 meaurements 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 fumbling for conversions.



SPECIFICATIONS

ISO/JIS type ANSI/AGD type

_____ ANSI/AGD type

Inch/Metric	Stem	dia. 3/8"	#4-48 UN	F 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

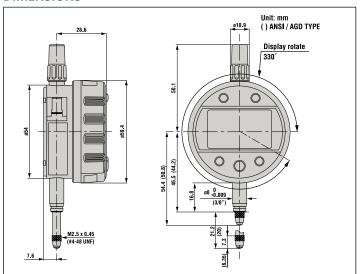
Resolution	Range	Order No.*	Model	Accuracy	Measuring Force
Calcatalala	.5"/12.7mm	543-341B	ID-C112RMXB	±.00010"/0.003mm	1.5N or less
	1"/25.4mm	543-591B	ID-C125RMXB	±.00010"/0.003mm	1.8N or less
	2"/50.8mm	543-596B	ID-C150RMXB	±.00025"/0.006mm	2.3N or less

Stem ø 8mm,	M2.5 x 0.45	Thread
	Stem ø 8mm,	Stem ø 8mm, M2.5 x 0.45

Resolution	Range	Order No.*	Model	Accuracy	Measuring Force
0.001/0.01mm Selectable	.5"/12.7mm	543-340B	ID-C112RXB	0.003mm	1.5N or less
	1"/25.4mm	543-590B	ID-C125RXB	0.003mm	1.8N or less
	2"/50.8mm	543-595B	ID-C150RXB	0.006mm	2.3N or less

^{*}Flat back

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.