

# ABSOLUTE Digimatic Indicator ID-C

## SERIES 543 — Calculation Type

### FEATURES

A conventional Digimatic indicator simply displays spindle displacement, but the Calculation-Type Digimatic indicator displays the result of an internal calculation based on spindle displacement. With fixtures, measurements such as feeler, inside diameter and radius of curvature measurement can easily be obtained without the hassle of conversion tables or equivalents.

- Calculations are performed using the formula  $Ax+B+Cx^{-1}$  ('x' is spindle displacement) while the specified coefficients A, B and, C can be set with respect to the purpose of measurement or dimensions of the fixture. This unique features allows you to read derived measurements directly, without fumbling for conversions.



543-285B

### SPECIFICATIONS

Metric			
Resolution	Order No.*	Range	Accuracy
0.0002 - 1mm (switchable)	543-285B	12.7mm	0.003mm
	543-480B	25.4mm	0.003mm
	543-485B	50.8mm	0.006mm

\*Flat back

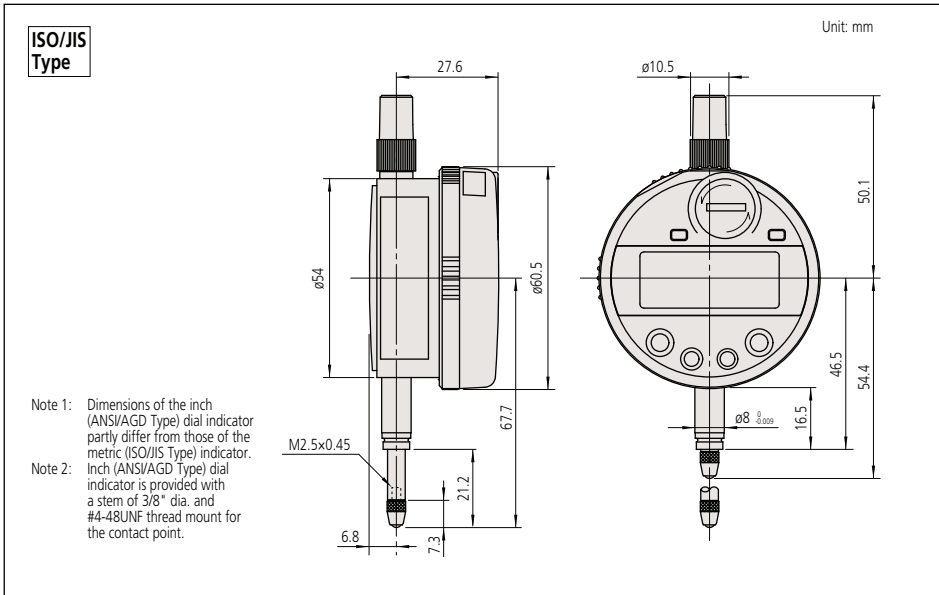
ISO/JIS type

ANSI/AGD type

Inch/Metric			
Resolution	Order No.*	Range	Accuracy
.00001" - .05"/ 0.0002 - 1mm (switchable)	543-286B	.5"	.00012"
	543-287B	.5"	.00012"
	543-481B	1"	.00012"
	543-482B	1"	.00012"
	543-486B	2"	.00025"
	543-487B	2"	.00025"

\*Flat back

### DIMENSIONS



(Refer to page VIII for details.)

### Technical Data

- Accuracy: Refer to the list of specifications (excluding quantizing error)
- Resolution: 0.0002mm - 1mm or .00001" - .05"/0.0002mm - 1mm
- Display: LCD Character Height 6.5mm
- Scale type: ABSOLUTE electrostatic linear encoder
- Max. response speed: Unlimited
- Measuring force: 1.5N or less
- Stem dia.: 8mm (ISO/JIS type) or 3/8" (ANSI/AGD type)
- Contact point: Carbide ball with M2.5x0.45 (ISO/JIS type) Carbide ball with #4-48UNF (ANSI/AGD type)
- Battery: SR44 (1 pc.), **938882**
- Battery life: Approx. 12 months under normal use

### Function

- Origin-set/Preset, Zero-set, GO/±NG judgment, Power ON/OFF, Data output, inch/mm conversion (inch/mm models)
- Max/Min value holding, Function lock, Data hold
- Alarm: Low voltage, Counting value composition error, Overflow error, Tolerance limit setting error

### Optional Accessories

- 905338: SPC cable (1m)
- 905409: SPC cable (2m)
- 02AZD790F: SPC cable for U-WAVE(160mm)
- 902011: Spindle lifting lever (ISO/JIS type)
- 902794: Spindle lifting lever (ANSI/AGD type)
- 540774: Spindle lifting cable
- Backs (See page F-40.)
- Contact points (See page F-36.)

### APPLICATIONS



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