

# ABSOLUTE Digimatic Indicator ID-C

**SERIES 543 — With Max./Min. Value Holding Function**

## FEATURES

- The new Peak Hold-Type Digimatic Indicator features both a Key-Lock and Parameter-Lock to prevent accidental changing of settings during operation.
- Parameter setting software makes it even easy to set all available parameters.
- An analog bar provides easy-to-read values when scanning for Max, Min and TIR Values.
- The maximum, minimum or runout value can be displayed during measurement.
- Go/no-go judgment is performed by setting the upper and lower tolerances for max., min. and runout values.
- High speed sampling ratio of 50 times/s.
- Employing the ABSOLUTE linear encoder, the Signal ID-C always displays the spindle Absolute Position from the origin when turned on.



543-302B

## SPECIFICATIONS

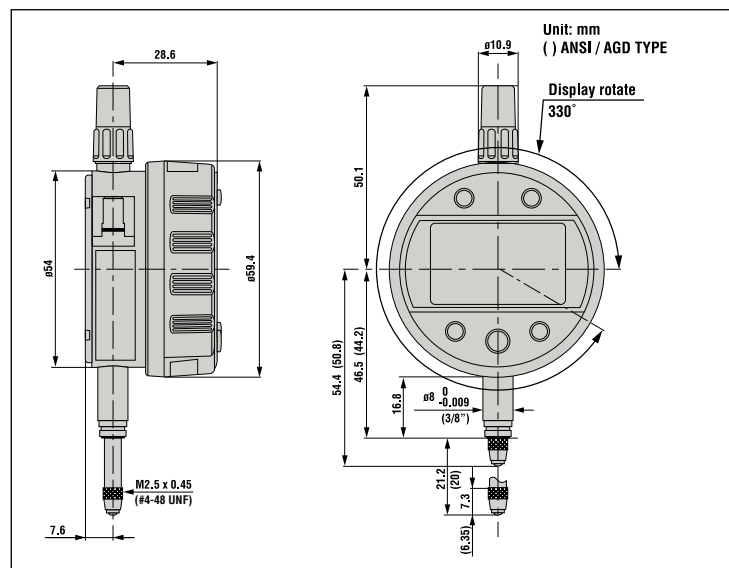
ISO/JIS type    ANSI/AGD type

| Resolution                                          | Range      | Order No.      |                 | Model         | Accuracy         |
|-----------------------------------------------------|------------|----------------|-----------------|---------------|------------------|
|                                                     |            | w/lug          | Flat-back       |               |                  |
| .00005"/.0001"/.0005"<br>0.001/0.01mm<br>Selectable | .5"/12.7mm | <b>543-302</b> | <b>543-302B</b> | ID-C112AEX(B) | ±.00010"/0.003mm |

| Resolution                                          | Range      | Order No.      |                 | Model         | Accuracy         |
|-----------------------------------------------------|------------|----------------|-----------------|---------------|------------------|
|                                                     |            | w/lug          | Flat-back       |               |                  |
| .00005"/.0001"/.0005"<br>0.001/0.01mm<br>Selectable | .5"/12.7mm | <b>543-301</b> | <b>543-301B</b> | ID-C112AMX(B) | ±.00010"/0.003mm |

| Resolution                 | Range  | Order No.      |                 | Model        | Accuracy |
|----------------------------|--------|----------------|-----------------|--------------|----------|
|                            |        | w/lug          | Flat-back       |              |          |
| 0.001-0.01mm<br>Selectable | 12.7mm | <b>543-300</b> | <b>543-300B</b> | ID-C112AX(B) | 0.003mm  |

## DIMENSIONS



SPC

**ABSOLUTE**  
Absolute System Patented by MITUTOYO



## Technical Data

Accuracy: Refer to the list of specifications  
Resolution: 0.001-0.01mm or .00005-.0005"/  
0.001-0.01mm  
Display: LCD  
Length standard: ABSOLUTE electrostatic capacitance-type  
linear encoder  
Max. response speed: Unlimited  
Measuring force: 1.5N or less  
Battery: CR2032 (1 pc.), **055AA217**  
Battery life: Approx. 12 months under normal use  
IP Rating: Equivalent to IP-42<sup>†1</sup>

<sup>†1</sup> 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.

## Function

Key Lock, Parameter Lock, PC-USB Input, Analog Bar, Fast measurement frequency, Preset (up to 3 values), Tolerance Judgment, Peak Detection, Calculation (Ax), inch/mm conversion (on inch/metric models only) Counting direction switching, Data Output  
Alarm: Low voltage, Counting value composition error, Overflow 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)  
**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)  
**540774:** Spindle lifting cable  
—: Backs (See page F-33.)  
—: Contact points (See page F-34.)