

Digimatic Indicators

Comparison measuring instruments which ensure high quality, high accuracy and reliability.

ABSOLUTE Digimatic Indicator ID-N/B SERIES 543 — with Dust/Water Protection Conforming to IP66

MeasurLink[®] ENABLED
Data Management Software by Mitutoyo

Functions

- Zero-setting (INC system)
- Presetting (ABS system)
- Direction switching
- Tolerance judgment
- LCD readout reversal
- Resolution switching (For 0.001 mm or 0.00005 inch resolution models)
- Data output
- Display value holding (when no external device is connected)
- Low battery voltage alarm display
- Error alarm display

Optional Accessories

- Lifting knob (only for ID-N)
21EZA105 (ISO/JIS type)
21EZA150 (ASME/ANSI/AGD type)

Spindle can be manually lifted. Remove the spindle cap for ID-N and attach the lifting knob to the spindle. Note that water resistance is not maintained in this configuration.

Using the lifting knob



- Lug
21EZA145 (ISO/JIS type)
21EZA146 (ASME/ANSI/AGD type)
- Arm for ID-B (made-to-order)
- Rubber boot
For oil resistance (NBR) **02ACA376** (for ID-N)
125317 (for ID-B)
For durability (silicon) **238774** (for ID-N)
21EAA212 (for ID-B)

- SPC cable:
21EAA194 (1 m)
21EAA190 (2 m)



- USB Input Tool Direct (2 m): **06AFM380G**
- Input Tool Series
IT-016U (USB Keyboard Signal Conversion Type): **264-016-10**
IT-007R (RS-232C Communication Conversion Type): **264-007**
Refer to page F-66 for details.
- Connecting Cables for U-WAVE-T (160 mm): **02AZD790G**
For foot switch: **02AZE140G**
Refer to page F-66 for details.
- Digimatic Mini-Processor **DP-1VA LOGGER: 264-505**
- Bifurcated connecting cable with zero-setting terminal:
21EAA210 (1 m)
21EAA211 (2 m)

Two of the wires inside the cable are separated for zero setting without touching the SET switch on the main body. Use these wires in combination with commercially available switches. Zero setting is performed by briefly connecting these two wires together (less than a second), and ABS preset & recall by connecting for a second or more.

- Contact points for Mitutoyo's dial indicators.
(Refer to pages F-57 to F-60 for details.)

- Our unique ABS scale restores the last origin position automatically when the indicator is turned on.
- The chance of overspeed errors has been eliminated thanks to the ABS scale.
- Rated to IP66: can be used satisfactorily even in adverse environments where the indicator is subject to splashing by cutting fluid or coolant.
- Slim body design (body width: only 35 mm) is advantageous in multipoint measurement situations where space is restricted. The LCD readout can also be rotated 180° to allow reading from the most convenient direction.
- Succeeded in digitalization of the Back Plunger type widely used for dial indicators for ID-B. A 5 mm-stroke plunger with a higher degree of accuracy has been implemented by adopting a direct reading scale for plunger displacement.
- Tolerance judgment can be performed by setting upper and lower tolerance limits. The judgment result (go/no-go) can be displayed in full-size characters.
- Equipped with a data output port that enables incorporation into measurement networking and statistical process control systems (refer to page A-3).



Rated to IP66 water- and dust-proofing standard and oil resistance improved.



Body width 35 mm

543-575



543-585



LCD readout reversal function

SPECIFICATIONS

Metric		ISO/JIS type			ASME/ANSI/AGD type		
Order No.	Range (mm)	Resolution (mm)	Accuracy* (mm)	Remarks			
543-570	12.7	0.01	0.02	Slim type ID-N			
543-580	5.0			Back Plunger type ID-B			
543-575	12.7	0.01/0.001	0.01/0.003	Slim type ID-N			
543-585	5.0			Back Plunger type ID-B			

Inch/Metric		ISO/JIS type			ASME/ANSI/AGD type		
Order No.	Range (in)	Resolution	Accuracy* (in)	Remarks			
543-571	0.5	0.0005 in, 0.01 mm	0.001	Slim type ID-N			
543-581	0.2			Back Plunger type ID-B			
543-576	0.5	0.01 mm/0.001 mm 0.0005 in/0.00005 in	0.00012	Slim type ID-N			
543-586	0.2			Back Plunger type ID-B			

* Quantizing error of ±1 count is excluded

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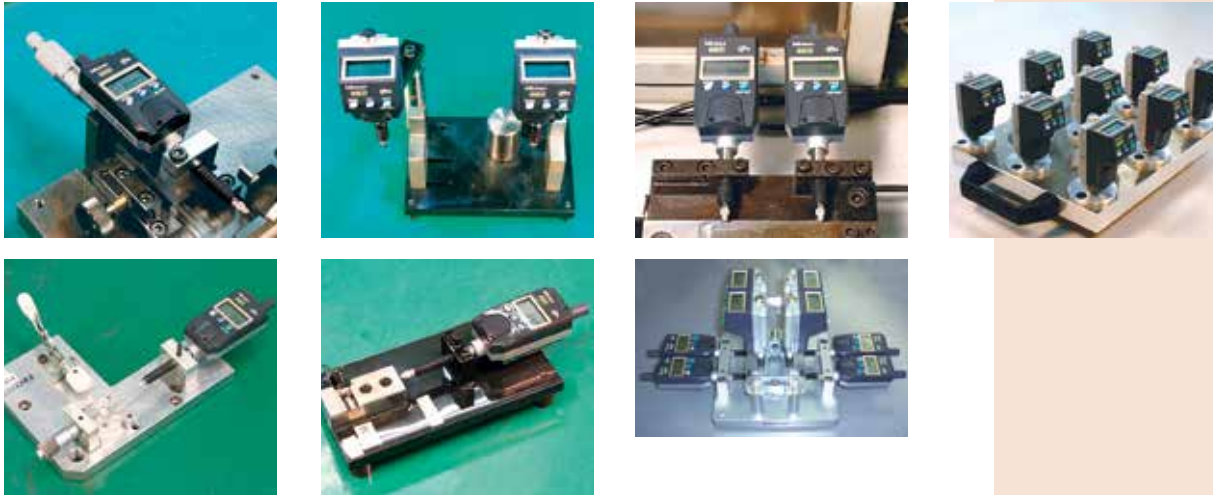
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Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink (refer to page A-5 for details).

ABSOLUTE™

Usage examples



DIMENSIONS

