

Digimatic Indicators

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

Technical Data

- Display: 6-digit LCD, sign, and analog bar with 2-color backlight
- Power supply: 9 V DC (via AC adaptor) **06AEG302***1
- *1 To denote your AC power cable add the following suffixes to the order No.: **JA** for UL/CSA and PSE, **D** for CEE, **DC** for CCC, **E** for BS, **K** for KC
- Lifting lever: **137693**

Functions

- Max/Min value hold
- Runout measurement (difference between maximum/minimum values)
- Zero-setting (INC system)
- Presetting (ABS system)
- Direction switching
- Tolerance judgment
- Digital display switching (0.01 mm ↔ 0.001 mm)
- Analog resolution selection (±0.02, ±0.04, ±0.1, ±0.2, ±0.4 mm)
- Function locking
- Data output
- Error alarm display

Optional Accessories

- Lifting cable: **540774** (stroke 25.4 mm)
- Lug-on-center back: **101040**(ISO/JIS type) **101306** (ASME/ANSI/AGD type)
- Auxiliary spindle spring: **02ACA571** (25.4 mm/1 inch models)*2 **02ACA773** (50.8 mm/2 inch models)*2
- *2 Required when orienting the indicator upside down.
- SPC cable: **936937** (1 m) **965014** (2 m)
- USB Input Tool Direct (2 m): **06AFM380D**
- 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): **02AZD790D**
- For foot switch: **02AZE140D**
- Refer to page F-66 for details.
- Contact points for Mitutoyo's dial indicators *3
- Interchangeable backs for Series 2 models*4
- Digimatic Mini-Processor **DP-1VA LOGGER: 264-505**
- Measuring stands
- *3 Refer to pages F-57 to F-60 for details.
- *4 Refer to page F-61 for details.

ABSOLUTE Digimatic Indicator ID-F SERIES 543 — with Back-lit LCD Screen

- GO/±NG judgment function: If a judgment result shows an out of tolerance condition, the display backlighting changes from green to red.

Green indication for GO judgment Red indication for ±NG judgment



- An analog bar indicator has been integrated to make upper/lower limit and turnover point reading more comfortable.
- The ABS (absolute) scale restores the last origin position*1 automatically when the indicator is turned on, and realizes high reliability by eliminating over-speed errors.
- Easy-to-read large LCD readout with the character height of 8.5 mm.
- External power supply type: an AC adapter is a standard accessory.

*1 Regarding origin setting, refer to "Origin Setting of Digimatic Indicators" on page F-25.

- The resolution can be switched between 0.001 mm/0.01 mm (or 0.001 inch/0.0005 inch/0.0001 inch/0.00005 inch).
- Equipped with a data output port that enables incorporation into measurement networking and statistical process control systems (refer to page A-3).

Multi-functional model



SPECIFICATIONS

Metric			
Order No.*2	Range (mm)	Resolution (mm)	Accuracy*3 (mm)
543-551	25	0.001, 0.01	0.003
543-557	50		0.003
543-553	50		0.006

*2 To denote your AC power cable add the following suffixes to the order No.: **A** for UL/CSA, **D** for CEE, **DC** for CCC, **E** for BS, **K** for KC, **No suffix** is required for JIS/100 V

*3 Quantizing error of ±1 count is excluded.

Inch / Metric			
Order No.*2	Range	Resolution	Accuracy*3
543-552	1 inch / 25.4 mm	0.00005 in, 0.0001 in, 0.0005 in, 0.001 in, 0.001 mm, 0.01 mm	0.00012 in / 0.003 mm
543-558	2 inch / 50.8 mm		0.00012 in / 0.003 mm
543-554	2 inch / 50.8 mm		0.00024 in / 0.006 mm

*2 To denote your AC power cable add the following suffixes to the order No.: **A** for UL/CSA, **D** for CEE, **DC** for CCC, **E** for BS, **K** for KC, **No suffix** is required for JIS/100 V

*3 Quantizing error of ±1 count is excluded.

□ ISO/JIS type □ ASME/ANSI/AGD type

DIMENSIONS

