

Digimatic Indicators

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

ABSOLUTE Solar-Powered Digimatic Indicator ID-SS SERIES 543

- Solar powered, this series consists of environmentally friendly measuring instruments that do not require batteries, eliminating the need for battery replacement. Their minimum operating luminance is 40 lux (lx), lower than that inside a warehouse.
- The large-capacity built-in reservoir capacitor allows you to use the indicator for long periods of time under lighting conditions below the minimum level.
- All functions can be accessed by using the two or three large buttons on the front of the indicator.
- Origin recorded even if display disappears. The indicator includes an ABS (absolute) scale that allows the previously set origin to be restored even if the display disappears due to insufficient lighting, making it easy to resume measurement. This feature makes ID-SS ideal for long-time or multi-point measurement.
- Three types of accessories (optional) are available to enable spindle lifting in various measurement settings.
- Equipped with a data output port that enables incorporation into measurement networking and statistical process control systems. (Refer to page A-3)

MeasurLink[®] ENABLED
Data Management Software by Mitutoyo



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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-25 for details).

ABSOLUTE[™]



An inspection certificate is supplied as standard. Refer to page U-9 for details.

Technical Data

- Display: 6-digit LCD, sign
- Usable orientations: All
- Power supply: Solar battery (for indoor use)
- Minimum Operating illumination: 40 lux (lx)
- Note: Rechargeable; can be used for approximately 3.5 hours when fully charged. Charging time is approximately 1.5 hours under 500 lux (lx) lighting conditions.
- Maximum response speed: No limit (scan-type measurement is not supported)

Functions

- Origin set (Zero-setting)
- Direction switching
- Data output
- Error alarm display

SPECIFICATIONS

Metric			Maximum permissible error*1 (mm)			Measuring force MPL (N)	Back type	Net mass (g)
Order No.	Range (mm)	Resolution (mm)	MPE _E *2	Hysteresis MPE _H	Repeatability MPE _R			
543-500	12.7	0.001	0.003	0.002	0.002	1.5 or less	With lug	150
543-500B							Flat	140
543-505		0.01	0.02	0.02	0.01		With lug	150
543-505B							Flat	140

Inch / Metric			Maximum permissible error*1			Measuring force MPL (N)	Back type	Net mass (g)				
Order No.	Range	Resolution	MPE _E *2	Hysteresis MPE _H	Repeatability MPE _R							
543-501	0.5 in / 12.7 mm	0.0005 in / 0.001 mm	±0.0001 in / 0.003 mm	0.0001 in / 0.002 mm	0.0001 in / 0.002 mm	1.5 or less	With lug	150				
543-501B							Flat	140				
543-502							0.0005 in / 0.001 mm	±0.0010 in / 0.02 mm	0.0010 in / 0.02 mm	0.0005 in / 0.01 mm	With lug	165
543-502B											Flat	140
543-506		0.0005 in / 0.01 mm	±0.0010 in / 0.02 mm	0.0010 in / 0.02 mm	0.0005 in / 0.01 mm		With lug	150				
543-506B							Flat	140				
543-507							With lug	165				
543-507B							Flat	140				

*1 These values apply at 20 °C.

*2 Error of indication for the total measuring range

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