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

MeasurLink ENABLED

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).

ABS**O**LUTE

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	-					ISO/JIS type	ASME/	ANSI/AGD type
	Range (mm)	Resolution (mm)	Maximum permissible error*1 (mm)			Moscuring		
Order No.			MPE _E *2	Hysteresis	Repeatability	Measuring force MPL (N)	Back type	ype Net mass (g)
				МРЕн	MPEr			
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

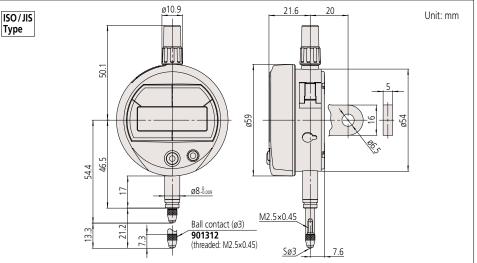
	Range	Resolution	Maximum permissible error*1			Manauring		
Order No.			MPE _E * ²	Hysteresis MPEн	Repeatability MPE _R	Measuring force MPL (N)	Back type	Net mass (g)
543-501	0.5 in/12.7 mm						With lug	150
543-501B		0.00005 in	±0.0001 in	0.0001 in	0.0001 in		Flat	140
543-502		/0.001 mm	/0.003 mm	/0.002 mm	/0.002 mm		With lug	165
543-502B						1.5 or less	Flat	140
543-506						1.5 01 1855	With lug	150
543-506B		0.0005 in	±0.0010 in	0.0010 in	0.0005 in		Flat	140
543-507		/0.01 mm	/0.02 mm	/0.02 mm	/0.01 mm		With lug	165
543-507B							Flat	140

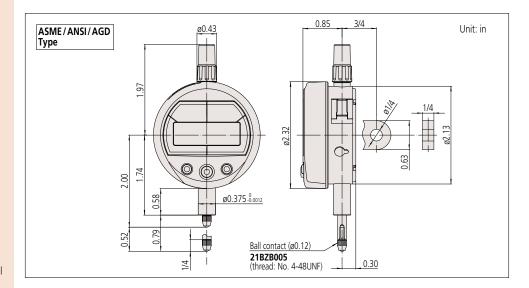
*1 These values apply at 20 °C.

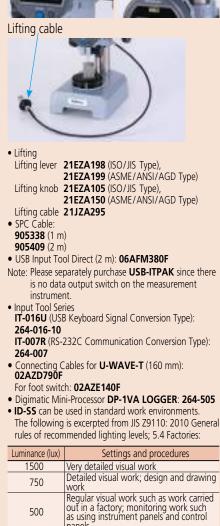
*2 Error of indication for the total measuring range Note: Regarding origin setting, refer to "Origin Setting of Digimatic Indicators" on page F-25.



Dimensions







Optional Accessories

Lifting knob

Lifting lever

750	work
500	Regular visual work such as work carried out in a factory; monitoring work such as using instrument panels and control panels
300	Administrative work carried out in a warehouse
200	Control rooms, bathrooms, and places where manual light work is carried out
150	Work such as loading, unloading, and
100	Hallways, corridors, entrances and exits, and warehouses
50	Indoor emergency staircases

Mitutoyo