An inspection certificate is supplied as standard.

# **Digimatic Indicators**

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

# **ABSOLUTE Solar-Powered Digimatic Indicator ID-SS SERIES 543**

Solar powered

An environmentally friendly measuring instrument that does not require batteries, eliminating the hassle and cost of battery replacement. Can operate under minimum light conditions of 40 lux—lower than the level in a warehouse.

 Built-in recharger The large-capacity built-in reservoir capacitor allows you to use the indicator for long periods of time under light conditions below the minimum level.\*

• User-friendly buttons 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) sensor that allows the previously set origin to

be restored even if the display disappears due to insufficient light, making it easy to resume measurement. This feature makes ID-SS ideal for long-time or multi-point measurement.



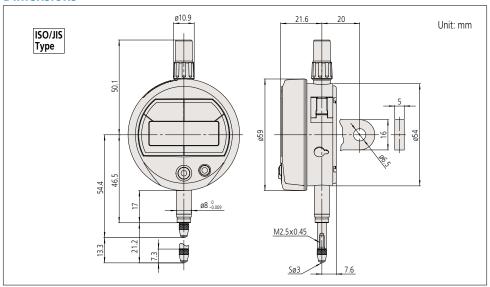
Metric SO/JIS type ASME/ANSI/AGD typ								
Order No.	Range	Resolution	Accuracy			Remarks		
Order No.			Overall*	Hysteresis*	Repeatability*	Nemarks		
543-500		0.001mm	0.003mm	0.002mm	0.002mm	With lug		
543-500B	12.7mm					Flat		
543-505		0.01mm	0.02mm	0.02mm	0.01mm	With lug		
543-505B						Flat		

Inch/Metric =						
Order No.	Pango	Resolution	Accuracy			Remarks
Order No.	Range		Overall*	Hysteresis*	Repeatability*	Velligiks
543-501	.5"	.00005"/0.001mm	±.0001"/0.003mm	.0001"/0.002mm	.0001"/0.002mm	With lug
543-501B						Flat
543-502						With lug
543-502B						Flat
543-506		.0005/0.01mm	±.0010"/0.02mm	.0010"/0.02mm	.005"/0.01mm	With lug
543-506B						Flat
543-507						With lug
543-507B						Flat

<sup>\*</sup> Quantizing error of ±1 count is excluded.

## **Dimensions**

**SPECIFICATIONS** 



Note 1: Dimensions of the inch (ANSI/AGD Type) dial indicator partly differ from those of the metric (ISO/JIS Type) indicator. Note 2: Inch (ANSI/AGD Type) dial indicators are provided with a stem of 3/8" dia. and #4-48UNF thread mount for the contact point.



## **Technical Data**

Display: 6-digit LCD and sign Scale type: ABSOLUTE electrostatic linear encoder Measuring force: 1.5 N or less

Refer to page X for details.

Usable positions: All

Osable positions. All
Power supply: Solar battery (for indoor use)
Minimum Operating light: 40 lux
Note: A built-in reservoir capacitor allows a fully charged
ID-SS to be used for about 3.5 hours under light conditions below the minimum level.

The charging time differs depending on the environment, but it usually takes about 1.5 hours for a fully discharged ID-SS to fully recharge under light conditions of 500 lux. Maximum response speed: No limit (scan-type measurement is not supported)

Stem dia: 8mm (ISO/JIS type) or 3/8" (ANSI/AGD type)

#### **Functions**

Origin set (zero-set) Count direction switching inch/mm conversion (inch/mm models) Data output

Alarm: Counting value composition error Insufficient illumination intensity or change

# **Optional accessories**

Lifting lever Lifting knob





Lifting release



## **Optional Accessories**

Lifting lever No.21EZA198 (ISO/JIS/DIN Type),

No.21EZA199 (ASME/ANSI/ AGD Type) No.21EZA105 (ISO/JIS/DIN Type), No.21EZA150 (ASME/ANSI/ AGD Type)

Lifting cable (No. 540774)

 SPC Čable: No.905338 (1m)

No.905409 (2m)

USB Input Tool Direct (2m): 06ADV380F
 Connecting Cables for U-WAVE-T (160mm):

## No.02AZĎ790F

For footswitch 02AZE140F

Refer to page F-60 for details.

• Digimatic Mini-Processor DP-1VR: **264-504** 

• Contact points for Mitutoyo's dial indicators (Refer to pages F-51 to F-54 for details.) Interchangeable backs for 2 series (Refer to page F-55 for details.)

• Measuring stands (Refer to page F-79 to F-85 for details.)

• ID-SS can be used in standard work environments

The following is excerpted from JIS Z9110:2010 General rules of recommended lighting levels; 5.4 Factories:

Luminance (lux)	Location (permissible work)	
1500	Very detailed visual work	
750	Detailed visual work; design and drawing work	
500	Regular visual work such as work carried out in a factory; monitoring work such as using instrument panels and control panels	
	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 shifting loads	
100	Hallways, corridors, entrances and exits, and warehouses	
50	Indoor emergency staircases	