

# Digimatic Indicators

## SERIES 543 – ABSOLUTE Digimatic Solar Indicator ID-SS

- Solar power supply. 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 of warehouse lighting.
- Built-in recharger. The large-capacity built-in recharger allows you to use the indicator for long periods of time under light conditions below the minimum level.\*
- User-friendly operation. All functions can be accessed by using the large buttons on the front of the indicator.
- Origin recorded even if display disappears. The indicator includes an ABSOLUTE sensor that allows the previously set origin to be stored 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.

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

**ABSOLUTE**



**SOLAR**

### Technical Data

Display:	6-digit LCD and sign
Scale type:	ABSOLUTE electrostatic linear encoder
Measuring force:	1.5 N or less
Usable orientation:	All
Power supply:	Solar battery (for indoor use)
Min. operating light:	40 lux*
Max. response speed:	No limit (scanning measurement is not supported)
Stem diameter:	8 mm
Standard contact point:	<b>901312</b>

\* A built-in recharger 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.

### Functions

Origin set (zero-set), count direction switching, data output, inch/mm reading

Alarm: Counting value composition error, insufficient illumination intensity or charge



543-501



543-506

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
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 shifting loads
100	Hallways, corridors, entrances and exits, and warehouses
50	Indoor emergency staircases

## Optional Accessories

Code No.	Description	Price
540774	Plunger lifting cable	£24.40
905338	SPC data cable (1 m)	£33.90
905409	SPC data cable (2 m)	£38.00
02AZD790F	U-WAVE-T data cable (160 mm)	£62.00
02AZE140F	U-WAVE-T data cable with footswitch connection (160/500 mm)	£127.00
21EZA105	Plunger lifting knob	£13.60
21EZA198	Plunger lifting lever	£6.30

Contact points for Mitutoyo's dial indicators refer to pages F-37 to F-40 for details.

Interchangeable backs refer to page F-41 for details.

Measuring stands refer to pages F-67 to F-72 for details.



## Specifications

Inch/Metric					
Code No.	Resolution	Range	Accuracy*	Repeatability*	Price
With lug					
543-501	.00005" / 0.001 mm	.5" / 12.7 mm	±.0001" / 0.003 mm	.0001" / 0.002 mm	£249.00
543-506	.0005" / 0.01 mm		±.001" / 0.02 mm	.005" / 0.01 mm	£122.00
Flat					
543-501B	.00005" / 0.001 mm	.5" / 12.7 mm	±.0001" / 0.003 mm	.0001" / 0.002 mm	£249.00
543-506B	.0005" / 0.01 mm		±.001" / 0.02 mm	.005" / 0.01 mm	£122.00

\* Quantizing error of ±1 count is excluded.

## Dimensions

