

ABS Solar-Powered Digimatic Indicator ID-SS **New**

SOLAR



- * Patent pending in Japan, the United States, the European Union, and China.
- * Design registered in Japan, the United States, the European Union, and China.

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 needed inside a warehouse.

Large reserve power capacity

A large reserve of power (when fully charged) enables you to use the indicator for long periods of time under light conditions below the minimum level.
(Can be used for approx. 3.5 hours on a full charge.)

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 extended measurement sessions.

ABSOLUTE™

Mitutoyo

Specifications

Metric		ISO/JIS/DIN Type				ASME/ANSI/AGD Type	
Order No.	Range	Resolution	Accuracy* ¹			Back type	Mass
			Overall* ²	Hysteresis	Repeatability		
543-500	12.7 mm	0.001 mm	0.003 mm	0.002 mm	0.002 mm	With lug	150g
543-500B						Flat	140g
543-505		0.01 mm	0.02 mm	0.02 mm	0.01 mm	With lug	150g
543-505B						Flat	140g

Inch/Metric		ISO/JIS/DIN Type				ASME/ANSI/AGD Type	
Order No.	Range	Resolution	Accuracy* ¹			Back type	Mass
			Overall* ²	Hysteresis	Repeatability		
543-501	.5"/12.7 mm	.00005"/0.001mm	±.0001"/0.003mm	.0001"/0.002mm	.0001"/0.002mm	With lug	150g
543-501B						Flat	140g
543-502		.00005"/0.001mm	±.0001"/0.003mm	.0001"/0.002mm	.0001"/0.002mm	With lug	165g
543-502B						Flat	140g
543-506		.0005"/0.01mm	±.0010"/0.02mm	.0010"/0.02mm	.005"/0.01mm	With lug	150g
543-506B						Flat	140g
543-507		.0005"/0.01mm	±.0010"/0.02mm	.0010"/0.02mm	.005"/0.01mm	With lug	165g
543-507B						Flat	140g

*1 These values apply at 20°C, and do not include ±1 count allowance for quantization error.

*2 Overall magnification and linearity

Common specifications

Display: 6-digit LCD, sign

Contact point: Spherical tip SR = 1.5 mm (carbide tipped)

Part No. **901312** (for ISO/JIS/DIN Type)

Part No. **21BZB005** (for ASME/ANSI/AGD Type)

Measuring force: 1.5 N or lower

Usable orientation: All

Power supply: Solar cell (for indoor use)

Minimum operating light: 40lux

Reserve capacity allows a fully charged ID-SS to be used for about 3.5 hours under light conditions below the minimum level.

Charging time required depends on the environment, but it usually takes about 1.5 hours for a fully discharged ID-SS to fully recharge under light conditions of 500lux.

Maximum response speed: No limit (scan-type measurement is not supported)

Operating temperature range: 0 to 40°C

Storage temperature range: -10 to 60°C

Features

Origin set (zero-set): The display can be zeroed at any chosen position.

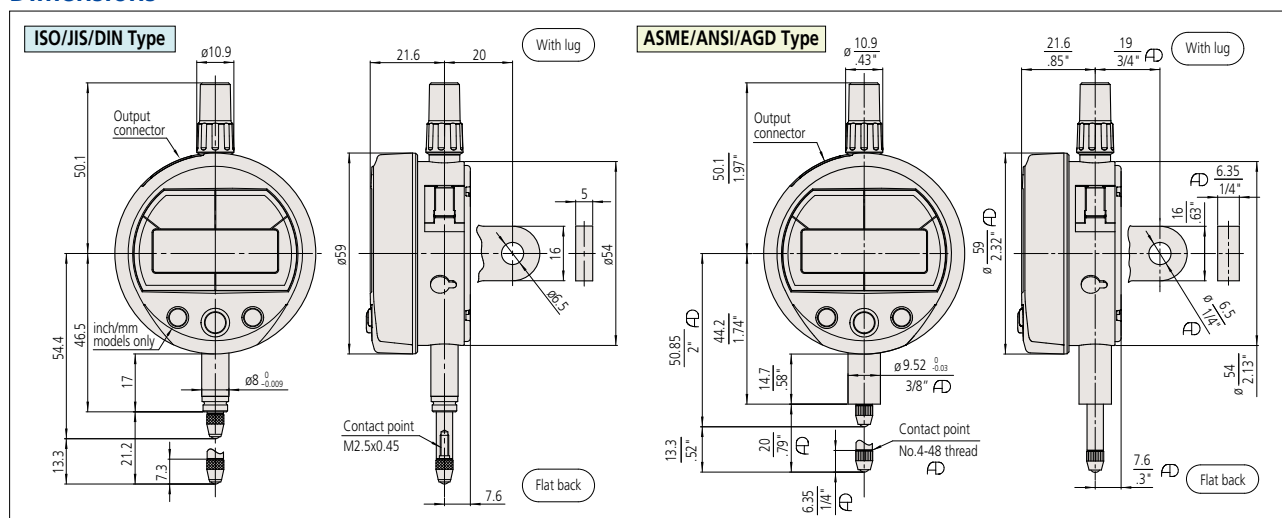
Direction switching: The measuring direction can be switched.

in/mm reading (inch/mm models only)

Measurement data output: These indicators have a measurement data output socket, which makes it possible to output Digimatic data to the DP-1VR mini processor or to a PC through an input tool. Furthermore, the U-WAVE measurement data wireless communication system can be used to wirelessly input measurement data to a PC.

Error warning

Dimensions



Optional accessories

Lifting

Lifting lever

No.21EZA198 (ISO/JIS/DIN Type)

No.21EZA199 (ASME/ANSI/AGD Type)



Lifting knob

No.21EZA105 (ISO/JIS/DIN Type)

No.21EZA150 (ASME/ANSI/AGD Type)



Lifting cable (No. 540774)



- SPC connecting cables
1m (No. 905338)
2m (No. 905409)
- Data processing products
- Contact points for Mitutoyo dial indicators
- Backs for Mitutoyo standard (2 series) dial indicators
- Stands

- 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 light manual 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