

ABS Solar-Powered Digimatic Indicator ID-SS

Catalog No. E12005



Mitutoyo

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

SOLAR



* Patent pending in Japan.
* 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 of 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. (See next page for details.)

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 extended measurement sessions.

Multiple lifting options

Taking into account the diversity of measurement work, Mitutoyo offers three accessories for lifting operations, allowing you to select the option best suited to your application.

Wide lineup of optional accessories

ID-SS users can select from wide lineup of accessories including contact points, stands, and data processing products.

Inspection certificate provided as standard

ID-SS comes with an inspection certificate that provides the data obtained during the shipment inspection. A calibration certificate that establishes the traceability of the standard calibration equipment can also be issued for a fee.

Note that the inspection certificate does not indicate the date of purchase and therefore cannot be used to issue a calibration certificate.

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Specifications

Metric ISO/JIS/DIN Type ASME/ANSI/AGD Type

Order No.	Range	Resolution	Accuracy*1			Remarks
			Overall*2	Hysteresis	Repeatability	
543-500	12.7 mm	0.001 mm	0.003 mm	0.002 mm	0.002 mm	With lug
543-500B						Flat
543-505		0.01 mm	0.02 mm	0.02 mm	0.01 mm	With lug
543-505B						Flat

Inch/Metric						
Order No.	Range	Resolution	Accuracy*1			Remarks
			Overall*2	Hysteresis	Repeatability	
543-501	.5"	.00005"/0.001mm	±.0001"/0.003mm	.0001"/0.002mm	.0001"/0.002mm	With lug
543-501B	.5"					Flat
543-502	.5"	.00005"/0.001mm	±.0001"/0.003mm	.0001"/0.002mm	.0001"/0.002mm	With lug
543-502B	.5"					Flat
543-506	.5"	.0005"/0.01mm	±.0010"/0.02mm	.0010"/0.02mm	.005"/0.01mm	With lug
543-506B	.5"					Flat
543-507	.5"	.0005"/0.01mm	±.0010"/0.02mm	.0010"/0.02mm	.005"/0.01mm	With lug
543-507B	.5"					Flat

*1 These values apply at 20°C, and do not include a ±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 positions: 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.

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 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)

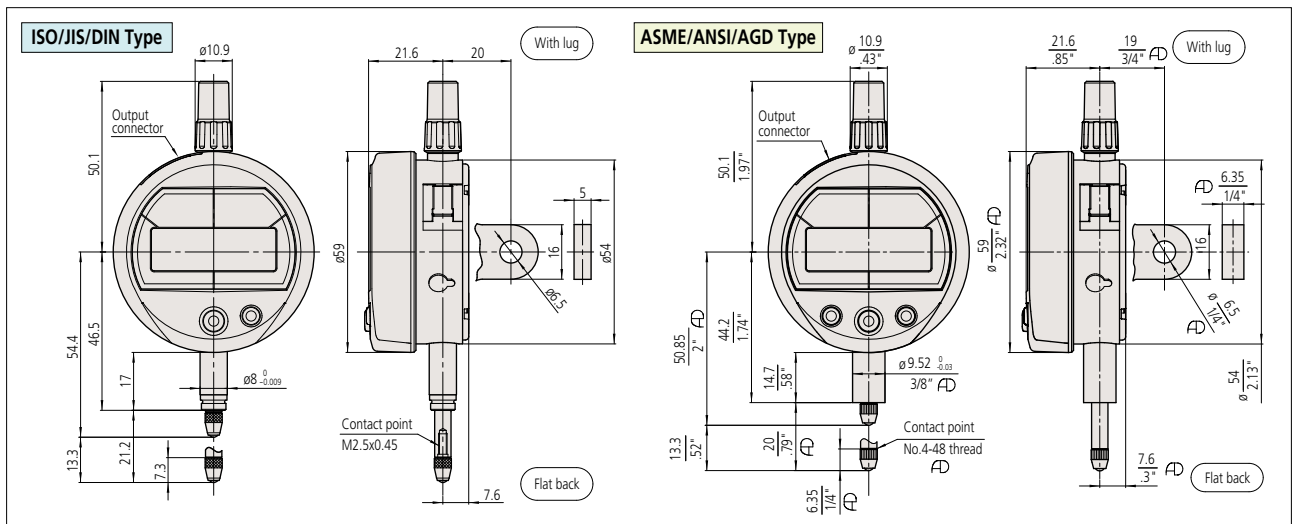
Measurement data output

Direction switching

Error warning

in/mm conversion (inch/mm model)

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 gages

• Backs for Mitutoyo standard (2 series) dial gages

• 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



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