(Refer to page X for details.)



An inspection certificate is supplied as standard. Refer to page X for details.

Technical Data

Display: 6-digit LCD and sign Scale type: ABSOLUTE electrostatic linear encoder Usable orientation: All

Power supply: SR44, part No. 938882 for initial operational checks (standard accessory)

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

Functions

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 measurement to the DP-1VR minimal control of the c 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

Optional accessories

Lifting

Lifting lever No.21EZA198 (ISO/JIS/DIN Type), No.21EZA199 (ASME/ANSV AGD Type)
Lifting knob No.21EZA105 (ISO/JIS/DIN Type), No.21EZA150 (ASME/ANSV AGD Type)

Lifting cable No. 540774
• SPC Cable:

No.905338 (1m) No.905409 (2m)

 USB Input Tool Direct (2m): 06ADV380F
 Connecting Cables for U-WAVE-T (160mm): No.02AZD790F

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.)

IP53 dust/water protection level

Level 5: Dust protection

While complete protection against invasion of dust is not provided, protection is adequate to prevent dust amounts that would inhibit the prescribed operations and safety of the electronic equipment.

Level 3: Protection against spraying water

The product suffers no harmful effects when subjected to water sprayed at an angle of up to 60 degrees on both sides.

For details on the dust/water protection level test conditions, please refer to IEC 60529:2001 and JIS C 0920:2003

IP code is the degree of protection against solid foreign objects and water.

Mitutoyo offers a lineup of coolant proof, ID-N/B indicators that have excellent resistance to oil, water and dust and so are suitable for use in environments that include splashing cutting fluid.



Refer to the ABS Digimatic Indicator ID-S Series brochure (E12013) for details.

ABSOLUTE Digimatic Indicator ID-SX **SERIES 543**

• Cost-effective oriented design ID-SX indicators use a button-type battery (SR44) and come with the minimum of functionality for ease of use. There is a choice of models in the lineup allowing selection of 0.01 mm, 0.001 mm or inch-based measurement resolutions.

• IP53 dust/water protection level The models listed below also provide IP53 dust/ water protection level specifications: 543-794/94B/95/95B/96/96B

• ABS (absolute) sensor These Digimatic indicators employ Mitutoyo's proprietary ABS (absolute) sensor, which makes it possible to restore the origin point even if the power is turned off. This eliminates the need to perform origin restoration each time the power is turned on. Furthermore, this sensor ensures that overspeed errors do not occur, which improves reliability.

 Long battery life One button battery (SR44) provides approximately 20,000 hours of continuous use for .0005"/0.01mm resolution models.

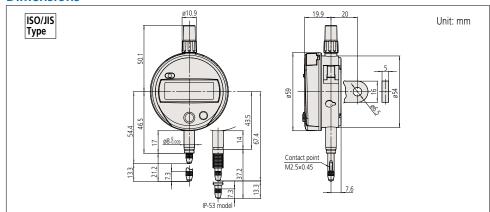


Metric	L				ISO/JIS/DIN Type ASME/ANSI/AGD Type				
Order N	o. Range	Resolution	Overall*2	Accuracy*1 Hysteresis	Repeatability	Back type	Measuring force	Battery life* ³ (continuous use)	Dust/Water protection level*4
543-790 543-790		0.001 mm	0.003 mm	0.002 mm	0.002 mm	With lug Flat	1.5N or less	- 18,000 hours	IP42
543-794 543-794						With lug Flat	2.5N or less		IP53
543-781 543-781		0.01 mm	0.02 mm	0.02 mm	0.01 mm	With lug Flat	1.5N or less	20,000 hours	IP42
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Order No.	Range	Resolution	Overall*2	Accuracy*1 Hysteresis	Repeatability	Back type	Measuring force	Battery life*3	Dust/Water protection level*4
543-791 543-791B 543-792 543-792B 543-793 543-795	.5"/12.7 mm	.00005"/0.001mm	±.0001″/0.003mm	.0001″/0.002mm		With lug Flat With lug Flat With lug Flat With lug	1.5N or less 2.5N or less	18,000 hours	IP42
543-795B 543-796 543-796B		.00005"/0.001mm				Flat With lug Flat			IP53
543-782 543-782B 543-783 543-783B		.0005″/0.01mm	±.0010"/0.02mm	.0010"/0.02mm	.0005"/0.01mm	With lug Flat With lug Flat	1.5N or less	20,000 hours	IP42

- These values apply at 20°C, and do not include ±1 count allowance for quantization error. Overall magnification and linearity.
- *3 The battery life varies, depending on the number of times the Digimatic indicators are used as well as the way it is used. The values listed above are approximations.
 *4 This is only valid when the data socket cover is in place. Does not apply if the cover is removed, a lifting accessory is attached, or a connecting cable is attached.

Dimensions



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.

