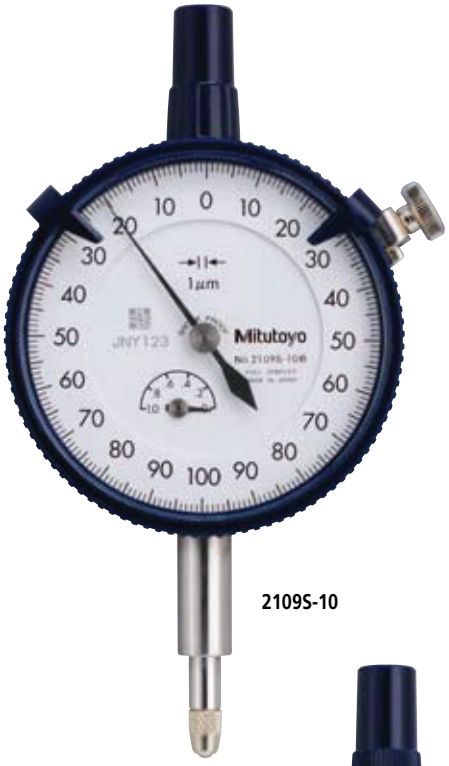
Dial Indicator

SERIES 2 — Standard Type, 0.001mm Resolution

FEATURES

- Standard 0.001mm and 0.005mm graduation dial indicators having a bezel with an outside diameter of ø57mm. All types come with limit markers and a bezel clamp.
- The outer clamp and lifting lever (optional) can be attached to either the right or left side. These parts can be easily installed and removed without tools.
- Secure adhesion between the bezel and crystal as well as the use of an O-ring prevents water or oil penetration.
- The spindle is made of high-strength quench-hardened stainless steel which resists arduous use.
- A carbide contact point is used.
- A special alloy is used for the sector gears to provide improved wear resistance.
- The indicator uses jeweled bearings, providing excellent indication sensitivity and durability.
- Application of a hard coating on the surface of the crystal makes the gauge highly scratch- and chemical-resistant.



2109S-10

2110S-10

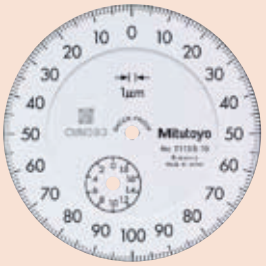
2119S-10

Mitutoyo guarantees the product quality
PROPRIETARY INSPECTION CERTIFICATE
Mitutoyo guarantees the product quality

(Refer to page VIII for details.)

2109S-10
2109S-70

2110S-10
2110S-70



2113S-10

2118S-10

2119S-10

2124S-10

Schockproof type　Waterproof type　Jeweled bearing type
Double scale spacing type

FEATURES

Metric

Order No.					
w/ lug	Flat-back				
2109S-10	**2109SB-10**	✔	—	✔	—
2109S-70	**2109SB-70**	✔	✔	✔	—
2110S-10	**2110SB-10**	✔	—	✔	✔
2110S-70	**2110SB-70**	✔	✔	✔	✔
2113S-10	**2113SB-10**	✔	—	✔	—
2118S-10	**2118SB-10**	—	—	✔	—
2119S-10	**2119SB-10**	—	—	✔	—
2124S-10	**2124SB-10**	—	—	✔	—

SPECIFICATIONS

Metric

ISO/JIS type

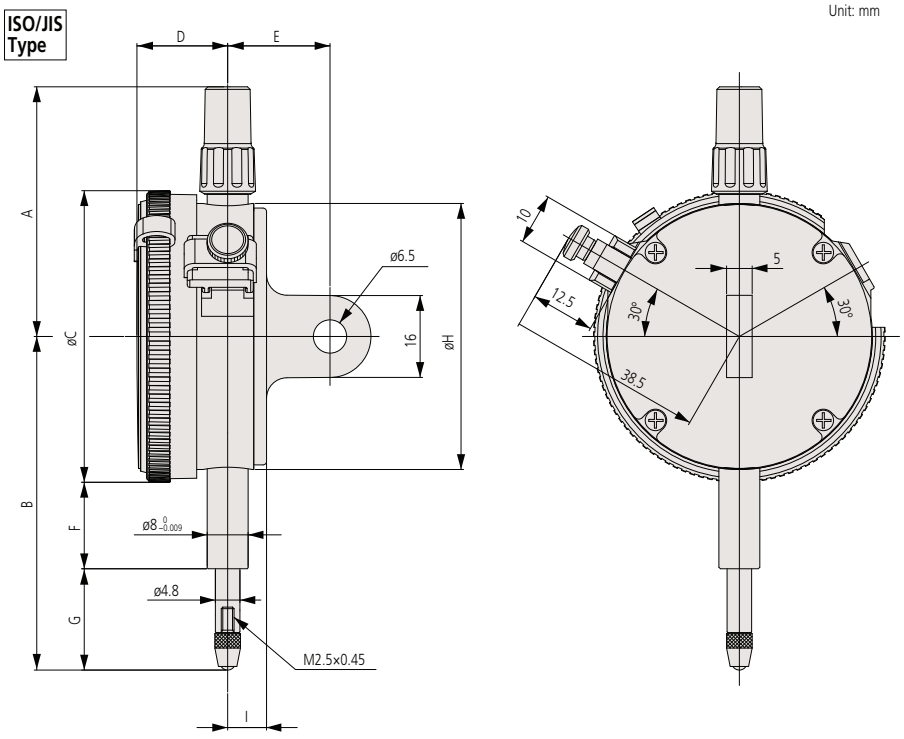
Graduation	Order No.		Range (range/rev)	Accuracy				Repeat-ability	Dial reading	Measuring force
	w/ lug	Flat-back		Overall	Retrace	1/10 Rev	1 Rev			
0.001mm	**2109S-10**	**2109SB-10**	1mm (0.2mm)	±5μm	3μm	2.5μm	±4μm	0.5μm	0-100-0	1.5N or less
0.001mm	**2109S-70**	**2109SB-70**	1mm (0.2mm)	±5μm	3μm	2.5μm	±4μm	0.5μm	0-100-0	2.0N or less
0.001mm	**2110S-10**	**2110SB-10**	1mm (0.1mm)	±5μm	3μm	2.5μm	±4μm	0.5μm	±0-100	1.5N or less
0.001mm	**2110S-70**	**2110SB-70**	1mm (0.1mm)	±5μm	3μm	2.5μm	±4μm	0.5μm	±0-100	2.0N or less
0.001mm	**2113S-10**	**2113SB-10**	2mm (0.2mm)	±7μm	3μm	4μm	±6μm	0.5μm	0-100-0	1.5N or less
0.001mm	**2118S-10**	**2118SB-10**	5mm (0.2mm)	±10μm	4μm	5μm	±7μm	1μm	0-100-100	1.5N or less
0.001mm	**2119S-10**	**2119SB-10**	5mm (0.2mm)	±10μm	4μm	5μm	±7μm	1μm	0-100-0	1.5N or less
0.005mm	**2124S-10**	**2124SB-10**	5mm (0.5mm)	±12μm	5μm	7μm	±9μm	3μm	±0-50	1.5N or less

Optional Accessories

———: Backs (See page F-40.)
———: Contact points (See page F-36.)

DIMENSIONS

Unit: mm



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 indicator is provided with a stem of 3/8" dia. and #4-48UNF thread mount for the contact point.

Order No.	A	B	C	D	E	F	G	H	I
2109S-10	48.8	60.5	57	17.7	20	16.9	15.1	52	7.6
2109S-70	48.8	65.3	57	17.7	20	12.3	24.5	52	7.6
2110S-10	48.8	66.5	57	17.7	20	16.9	21.1	52	7.6
2110S-70	48.8	67.5	57	17.7	20	12.3	26.7	52	7.6
2113S-10	48.8	61	57	17.7	20	16.9	15.6	52	7.6
2118S-10	48.8	60.3	57	17.7	20	16.9	14.9	52	7.6
2119S-10	48.8	60.3	57	17.7	20	16.9	14.9	52	7.6
2124S-10	48.8	60.3	57	17.7	20	16.9	14.9	52	7.6

F