



An inspection certificate is supplied as standard. Refer to page U-9 for details.

Dial Indicators

Comparison measuring instruments which ensure high quality, high accuracy and reliability.

SERIES 2 — Standard Type, 0.001 mm & 0.005 mm Graduation

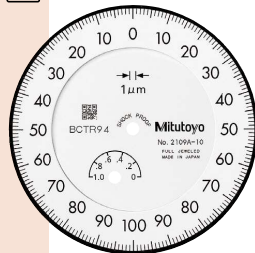
- Standard 0.001 mm and 0.005 mm graduation dial indicators having a bezel with an outside diameter of 57 mm.
- The bezel clamp and lifting lever (optional) can be attached to either the right or left side. These parts can be easily installed and removed without tools.
- Watertight assembly of bezel and crystal as well as the use of an O-ring prevents water or oil penetration.
- The stem and spindle are made of high-strength quench-hardened stainless steel suitable for heavy-duty 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 an anti-reflective and hard surface coating improves scale visibility along with scratch and chemical resistance.



2109A-10



Balanced scale



Graduation: 0.001 mm,
Measuring range: 1 mm

2109A-10



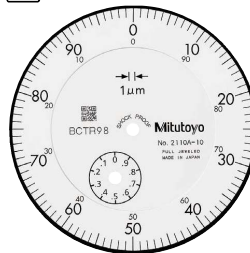
Shockproof



Jeweled bearing



Continuous scale



Graduation: 0.001 mm,
Measuring range: 1 mm

2110A-10



Double scale spacing



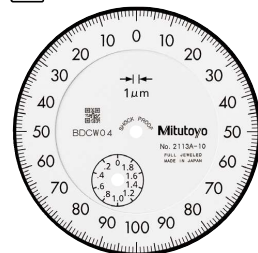
Shockproof



Jeweled bearing



Balanced scale



Graduation: 0.001 mm,
Measuring range: 2 mm

2113A-10



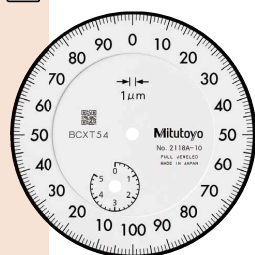
Shockproof



Jeweled bearing



Continuous scale



Graduation: 0.001 mm,
Measuring range: 5 mm

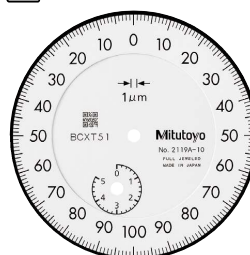
2118A-10



Jeweled bearing



Balanced scale



Graduation: 0.001 mm,
Measuring range: 5 mm

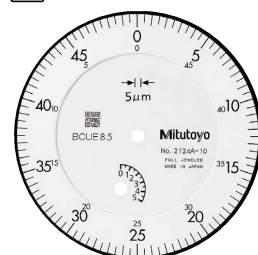
2119A-10



Jeweled bearing



Continuous scale



Graduation: 0.005 mm,
Measuring range: 5 mm

2124A-10



Jeweled bearing

Dial Indicators

Comparison measuring instruments which ensure high quality, high accuracy and reliability.

DIMENSIONS

ISO/JIS
Type

Unit: mm

Order No.	A	B	C	D	E	F	G	H	I	Mass (g)	
										w/lug	Flat-back
2109A-10	47.2	60.5	57	18.1	20	16.9	15.1	52	7.6	148	139
2110A-10	47.2	66.5	57	18.1	20	16.9	21.1	52	7.6	149	140
2113A-10	47.2	61	57	18.1	20	16.9	15.6	52	7.6	148	139
2118A-10	47.2	60.3	57	18.1	20	16.9	14.9	52	7.6	146	137
2119A-10	47.2	60.3	57	18.1	20	16.9	14.9	52	7.6	146	137
2124A-10	47.2	60.3	57	18.1	20	16.9	14.9	52	7.6	146	137

Note: Refer to pages F-57 to F-60 for details of contact points.

Optional Accessories

- Limit hand (2 pcs.): **21AZB195**
- Bezel clamp: **21AZB148**

FEATURES

Metric							
Order No.		ISO	JIS	3	60	Diamond	Hand
w/lug	Flat-back						
2109A-10	2109AB-10	✓	✓	✓		✓	✓
2110A-10	2110AB-10	✓	✓	✓		✓	✓
2113A-10	2113AB-10	✓	✓	✓		✓	✓
2118A-10	2118AB-10	✓				✓	
2119A-10	2119AB-10	✓	✓			✓	
2124A-10	2124AB-10	✓				✓	

SPECIFICATIONS

Metric												□ ISO/JIS type	
Order No.		Graduation (mm)	Range (range/rev) (mm)	Maximum permissible error (MPE) (μm)						Hysteresis	Repeat-ability	Dial reading	Measuring force (N)
w/lug	Flat-back			Indication error				Measuring range	1 Rev				
				1/10 Rev	1/2 Rev	1 Rev	5						
2109A-10	2109AB-10	0.001	1 (0.2)	2	3	4	5	2	0.5	0-100-0	1.5 or less		
2110A-10	2110AB-10	0.001	1 (0.1)	2	3	4	5	2	0.5	±0-100	1.8 or less		
2113A-10	2113AB-10	0.001	2 (0.2)	2	4	5	7	2	0.5	0-100-0	1.5 or less		
2118A-10	2118AB-10	0.001	5 (0.2)	3.5	5	6	10	3	1	0-100-100	1.5 or less		
2119A-10	2119AB-10	0.001	5 (0.2)	3.5	5	6	10	3	1	0-100-0	1.5 or less		
2124A-10	2124AB-10	0.005	5 (0.5)	5	8	9	12	3	3	±0-50	1.5 or less		

Note: Completed products inspection is performed in the vertical orientation (contact point downward) and the stated accuracy is guaranteed.