

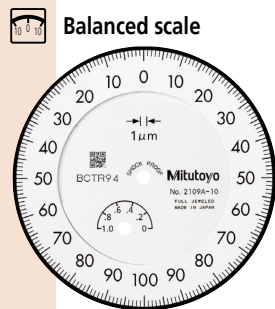


**SERIES 2 — Standard Type, 0.001 mm & 0.005 mm Graduation**

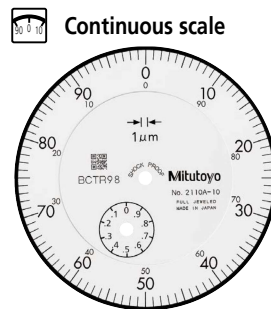
- Standard 0.001 mm and 0.005 mm graduation dial indicators having a bezel with an outside diameter of 57 mm.
- The bezel clamp and lifting lever (optional) can be attached to either the right or left side. These parts can be easily installed and removed without tools.
- Watertight assembly of bezel 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.



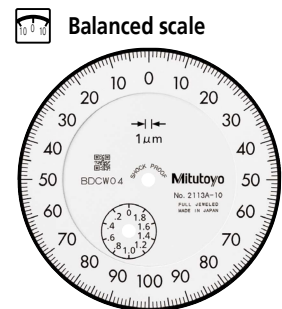
2109A-10



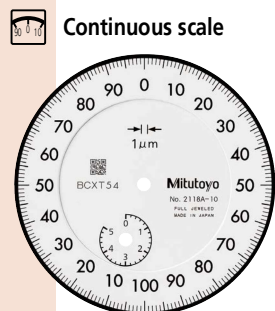
Graduation: 0.001 mm, Measuring range: 1 mm  
**2109A-10**  
 Shockproof  
 Jeweled bearing



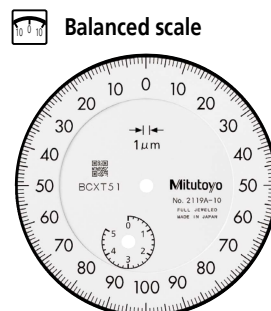
Graduation: 0.001 mm, Measuring range: 1 mm  
**2110A-10**  
 Double scale spacing  
 Shockproof  
 Jeweled bearing



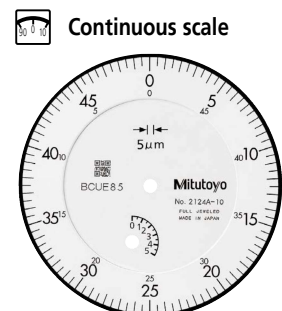
Graduation: 0.001 mm, Measuring range: 2 mm  
**2113A-10**  
 Shockproof  
 Jeweled bearing



Graduation: 0.001 mm, Measuring range: 5 mm  
**2118A-10**  
 Jeweled bearing



Graduation: 0.001 mm, Measuring range: 5 mm  
**2119A-10**  
 Jeweled bearing



Graduation: 0.005 mm, Measuring range: 5 mm  
**2124A-10**  
 Jeweled bearing

# Dial Indicators

## DIMENSIONS

ISO/JIS Type

Unit: mm

Order No.	A	B	C	D	E	F	G	H	I	Mass (g)	
										w/lug	Flat-back
<b>2109A-10</b>	47.2	60.5	57	18.1	20	16.9	15.1	52	7.6	148	139
<b>2110A-10</b>	47.2	66.5	57	18.1	20	16.9	21.1	52	7.6	149	140
<b>2113A-10</b>	47.2	61	57	18.1	20	16.9	15.6	52	7.6	148	139
<b>2118A-10</b>	47.2	60.7	57	18.1	20	16.9	15.3	52	7.6	146	137
<b>2119A-10</b>	47.2	60.7	57	18.1	20	16.9	15.3	52	7.6	146	137
<b>2124A-10</b>	47.2	60.7	57	18.1	20	16.9	15.3	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.							
w/lug	Flat-back						
<b>2109A-10</b>	<b>2109AB-10</b>		✓	✓		✓	
<b>2110A-10</b>	<b>2110AB-10</b>	✓		✓		✓	✓
<b>2113A-10</b>	<b>2113AB-10</b>		✓	✓		✓	
<b>2118A-10</b>	<b>2118AB-10</b>	✓				✓	
<b>2119A-10</b>	<b>2119AB-10</b>		✓			✓	
<b>2124A-10</b>	<b>2124AB-10</b>	✓				✓	

## SPECIFICATIONS

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