**Dial Indicators** 



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

- Standard 0.001 mm and 0.005 mm graduation dial indicators have a bezel with an outside diameter of 57 mm. These indicators provide excellent accuracy and durability.
- The indicator is highly durable thanks to its oil- and water-tight design, quenched hardened stainless-steel, carbide contact point, and a grand gear made of wear- and deformation-resistant material.
- Application of an anti-reflective and hard surface coating improves scale visibility along with scratch and chemical resistance.
- The indicator uses jeweled bearings, providing excellent indication sensitivity and durability.

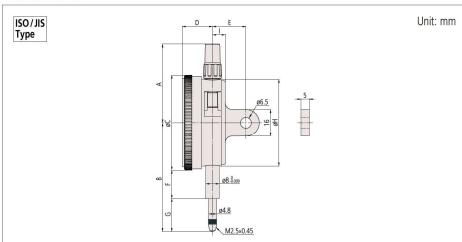


## **SPECIFICATIONS**

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

### **DIMENSIONS**



	Code No.	А	В	С	D	Е	F	G	Н	1	iviass (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	60.7	57	18.1	20	16.9	15.3	52	7.6	146	137
	2119A-10	47.2	60.7	57	18.1	20	16.9	15.3	52	7.6	146	137
	2124A-10	47.2	60.7	57	18.1	20	16.9	15.3	52	7.6	146	137

Note: Refer to pages 07-63 to 07-68 for details of contact points.



Dial Indicators

# **Balanced scale** 20 40

Mitutoyo 50 90 100 90 2109A-10 Graduation: 0.001 mm,

Measuring range: 1 mm Shockproof 

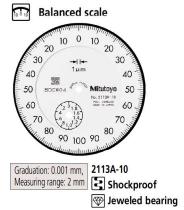
# Continuous scale

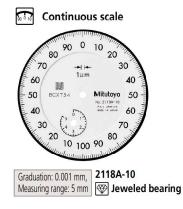
SERIES 2 — Standard Type, 0.001 mm & 0.005 mm Graduation

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

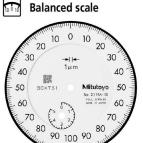
# **Optional Accessories**

• Limit hand (2 pcs.), Bezel clamp Refer to page 07-27 for details.



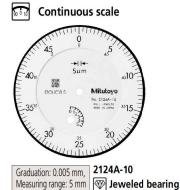






Graduation: 0.001 mm, Measuring range: 5 mm 2119A-10

Measuring range: 5 mm



# **FEATURES**

Metric ISO/JIS type									
Code	No.	3	3	5					
w/lug	Flat-back	90 0 16	10 0 16	5					
2109A-10	2109AB-10		>	~		V			
2110A-10	2110AB-10	>		V		~	~		
2113A-10	2113AB-10		V	~		~			
2118A-10	2118AB-10	١				V			
2119A-10	2119AB-10		V			V			
2124A-10	2124AB-10	>				V			

