Dial Indicators





SERIES 2 — Water-proof Type, 0.01 mm & 0.001 mm Graduation

- Standard 0.01 mm and 0.001 mm graduation dial indicators have a highly water-resistant bezel with an outside diameter of 57 mm.
- O-rings and rubber bellows are used to prevent water and oil penetration.
- Excellent in 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.

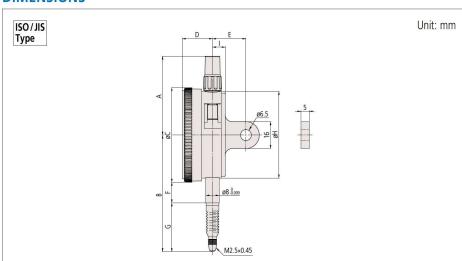


SPECIFICATIONS

Metric	Metric ————————————————————————————————————										ISO/JIS type		
Code No.			Dange	Maximum permissible error (MPE) (µm)									
	Graduation	Range (range/rev)	Indication error					Repeat-	000015000	Measuring			
w/lug	Flat-back	(mm)	(mm)	1/10 Rev	1/2 Rev	1 Rev	Measuring range	Hysteresis	ability	reading	force (N)		
2046A-60	2046AB-60	0.01	10 (1)	5	9	10	13	3	3	±0-100	2.5 or less		
2044A-60	2044AB-60	0.01	5 (1)	5	9	10	12	3	3	±0-100	2.5 or less		
2109A-70	2109AB-70	0.001	1 (0.2)	2	3	4	5	2	0.5	0-100-0	2.0 or less		
2110A-70	2110AB-70	0.001	1 (0.1)	2	3	4	5	2	0.5	±0-100	2.0 or less		

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

DIMENSIONS

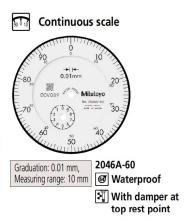


ľ	Code No.	А	В	С	D	Е	F	G	Н	1	Mass (g)	
1											w/lug	Flat-back
	2046A-60	47.2	74.7	57	18.1	20	12.3	33.9	52	7.6	147	138
	2044A-60	47.2	70	57	18.1	20	12.3	29.2	52	7.6	147	138
ľ	2109A-70	47.2	65.3	57	18.1	20	12.3	24.5	52	7.6	149	140
	2110A-70	47.2	67.5	57	18.1	20	12.3	26.7	52	7.6	150	141

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



SERIES 2 — Water-proof Type, 0.01 mm & 0.001 mm Graduation



Balanced scale

90 100 90

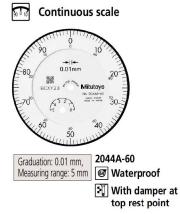
Graduation: 0.001 mm, Measuring range: 1 mm

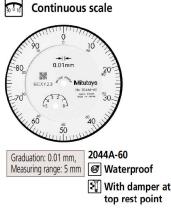
Mitutoyo 50

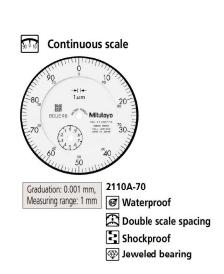
2109A-70

■ Waterproof

Shockproof







Optional Accessories • Limit hand (2 pcs.): 21AZB195



• Bezel clamp: **21AZB148** (for metric type) **21RZA065** (for inch type)



21AZB148

FEATURES

Metric ISO/JIS ty								
Code	3	3	5	(a)	(T)			
w/lug	Flat-back	90 0 10	10 0 10	5	69			
2046A-60	2046AB-60	١			1	V		
2044A-60	2044AB-60	>			~	V		
2109A-70	2109AB-70		V	V	~		~	
2110A-70	2110AB-70	١		~	V		~	~

