



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.

## ANSI/AGD Type Metric Dial Indicators with $\varnothing 3/8$ inch Stem and #4-48UNF-Thread Contact Point Compatible Type

### SPECIFICATIONS

Metric		SERIES 1		ANSI/AGD type						
Order No.		Graduation (mm)	Range (range/rev) (mm)	Accuracy ( $\mu\text{m}$ )			Repeat-ability ( $\mu\text{m}$ )	Dial reading	Measuring force (N)	
w/lug	Flat-back			First 1 Rev/2.5 Rev/10 Rev	Retrace					
1230A-01	1230AB-01	0.01	2.5 (1)	$\pm 10/\pm 10/-$			3	$\pm 2$	0-100	1.4 or less
1231A-01	1231AB-01	0.01	2.5 (1)	$\pm 10/\pm 10/-$			3	$\pm 2$	0-50-0	1.4 or less
1044A-01	1044AB-01	0.01	5 (1)	$\pm 10/\pm 10/\pm 13$			3	$\pm 3$	$\pm 0-100$	1.4 or less
1045A-01	1045AB-01	0.01	5 (1)	$\pm 10/\pm 10/\pm 13$			3	$\pm 3$	0-50-0	1.4 or less
1010A-11	1010AB-11	0.002	0.5 (0.2)	$\pm 2/\pm 2/-$			2	$\pm 1$	0-20	1.5 or less
1011A-11	1011AB-11	0.002	0.5 (0.2)	$\pm 2/\pm 2/-$			2	$\pm 1$	0-10-0	1.5 or less

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

Metric		SERIES 2		ANSI/AGD type						
Order No.		Graduation (mm)	Range (range/rev) (mm)	Accuracy ( $\mu\text{m}$ )			Repeat-ability ( $\mu\text{m}$ )	Dial reading	Measuring force (N)	
w/lug	Flat-back			First 1 Rev/2.5 Rev/10 Rev	Retrace					
2231A-01	2231AB-01	0.01	2.5 (1)	$\pm 10/\pm 10/-$			3	$\pm 3$	0-50-0	1.4 or less
2046A-01	2046AB-01	0.01	10 (1)	$\pm 10/\pm 10/\pm 13$			3	$\pm 3$	$\pm 0-100$	1.4 or less
2046A-11	2046AB-11	0.01	10 (1)	$\pm 10/\pm 10/\pm 13$			3	$\pm 3$	$\pm 0-100$	1.4 or less
2047A-01	2047AB-01	0.01	10 (1)	$\pm 10/\pm 10/\pm 13$			3	$\pm 3$	0-50-0	1.4 or less
2047A-11	2047AB-11	0.01	10 (1)	$\pm 10/\pm 10/\pm 13$			3	$\pm 3$	0-50-0	1.4 or less
2902A-01	2902AB-01	0.01	10 (1)	$\pm 10/\pm 10/\pm 13$			3	$\pm 3$	100-0	1.4 or less
2050A-01	2050AB-01	0.01	20 (1)	$\pm 10/\pm 10/\pm 15/\pm 20$ (20 Rev)			4	$\pm 3$	$\pm 0-100$	2.0 or less
2056A-01	2056AB-01	0.01	25 (1)	$\pm 10/\pm 10/\pm 15/\pm 20$ (20 Rev)/ $\pm 25$ (Over 20 Rev)			4	$\pm 3$	$\pm 0-100$	2.5 or less
2109A-11	2109AB-11	0.001	1 (0.2)	$\pm 3/\pm 3/\pm 4$			2	$\pm 0.3$	0-10-0	1.5 or less
2119A-11	2119AB-11	0.001	5 (0.2)	$\pm 7/\pm 7/\pm 8/\pm 10$ (20 Rev)/ $\pm 10$ (Over 20 Rev)			2.5	$\pm 0.3$	0-10-0	1.5 or less

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

### FEATURES

Metric		Order No.		Features							
w/lug	Flat-back			Flat	Flat	Flat	Diamond	ISO	Flame	IP67	
1230A-01	1230AB-01										
1231A-01	1231AB-01										
1044A-01	1044AB-01										
1045A-01	1045AB-01										
1010A-11	1010AB-11						✓			✓	
1011A-11	1011AB-11						✓			✓	

Metric		Order No.		Features											
w/lug	Flat-back			Flat	Flat	Flat	Diamond	ISO	Flame	IP67	IP67	IP67	IP67		
2231A-01	2231AB-01														
2046A-01	2046AB-01														
2046A-11	2046AB-11						✓								
2047A-01	2047AB-01														
2047A-11	2047AB-11						✓								
2902A-01	2902AB-01												✓		
2050A-01	2050AB-01														
2056A-01	2056AB-01														
2109A-11	2109AB-11						✓					✓			
2119A-11	2119AB-11						✓								

### Optional Accessories

- Backs (See page F-61)
- Contact points (See pages F-57 to F-60)