

Dial Indicator

SERIES 1 — Compact One Revolution Type for Error-free Reading

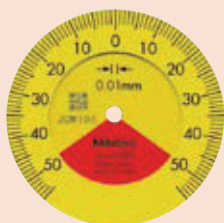


(Refer to page VIII for details.)



One revolution type

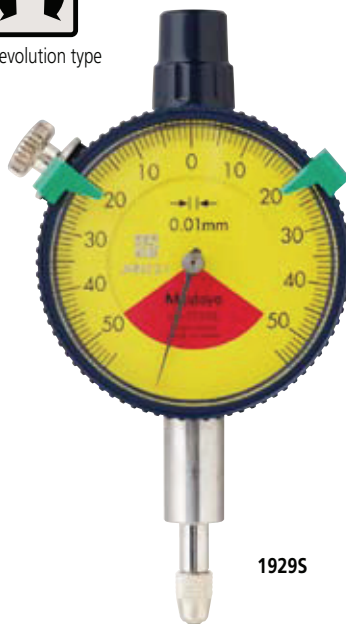
Unlike many other dial indicators, the one-revolution dial indicator literally shows the entire spindle travel or range as one sweep of the hand, eliminating the possibility of reading errors due to miscounting multiple revolutions. With one-revolution dial indicators, "within tolerance" and "out-of-tolerance" can never be misinterpreted. A unique shock-proof mechanism is incorporated, providing improved immunity to shock due to sudden spindle retraction caused by high impact.



1929S
1929S-62



1900S-10
1900S-72



1929S



Jeweled bearing type



Shockproof type



Dustproof type

FEATURES

Metric

Order No.				
w/ lug	Flat-back			
1929S	1929SB	—	—	✓
1929S-62	1929SB-62	—	✓	✓
1900S-10	1900SB-10	✓	—	✓
1900S-72	1900SB-72	✓	✓	✓

Inch

Order No.				
w/ lug	Flat-back			
1909S-62	1909SB-62	—	✓	✓
1910S-72	1910SB-72	✓	✓	✓

SPECIFICATIONS

Metric

ISO/JIS type

Graduation	Order No.		Range (range/rev)	Accuracy				Repeatability	Dial reading	Measuring force
	w/ lug	Flat-back		Overall	Retrace	1/10 Rev	1 Rev			
0.01mm	1929S	1929SB	1mm (1.4mm)	±11μm	6μm	7μm	—	5μm	50-0-50	1.4N or less
0.01mm	1929S-62	1929SB-62	1mm (1.4mm)	±11μm	6μm	7μm	—	5μm	50-0-50	1.4N or less
0.001mm	1900S-10	1900SB-10	0.1mm (0.14mm)	±6μm	4μm	5μm	—	1μm	50-0-50	1.5N or less
0.001mm	1900S-72	1900SB-72	0.1mm (0.14mm)	±6μm	4μm	5μm	—	1μm	50-0-50	1.5N or less

Inch

ANSI/AGD type

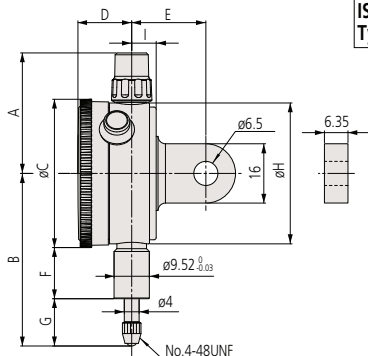
Graduation	Order No.		Range (range/rev)	Accuracy		Repeatability	Dial reading	Measuring force
	w/ lug	Flat-back		First 1 Rev / 2.5 Rev / 10 Rev	Retrace			
.0005"	1909S-62	1909SB-62	.04" (.056")	±.0005" / — / —	.00016"	±.0001"	20-0-20	1.4N or less
.0001"	1910S-72	1910SB-72	.006" (.008")	±.0001" / — / —	.0001"	±.00003"	3-0-3	1.5N or less

Optional Accessories

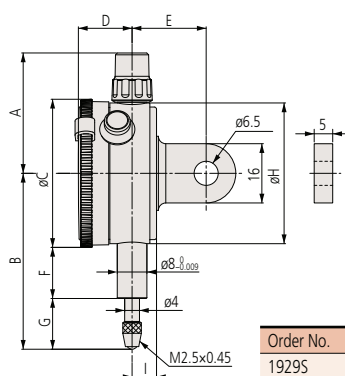
- : Backs (See page F-40.)
- : Contact points (See page F-36.)

DIMENSIONS

ANSI/AGD Type



ISO/JIS Type



Note 1: Dimensions of the inch (ANSI/AGD Type) dial indicator partly differ from those of the metric (ISO/JIS Type) indicator.
Note 2: Inch (ANSI/AGD Type) dial indicator is provided with a stem of 3/8" dia. and #4-48UNF thread mount for the contact point.

Order No.	A	B	C	D	E	F	G	H	I
1909S-62	32.5	41.7	40	14.5	19	12.8	8.9	38	6.6
1910S-72	32.5	40.8	40	14.5	19	12.8	8	38	6.6

Order No.	A	B	C	D	E	F	G	H	I
1929S	32.5	47.5	40	14.5	20	13.8	13.7	38	6.6
1929S-62	32.5	47.5	40	14.5	20	13.8	13.7	38	6.6
1900S-10	32.5	53.5	40	14.5	20	16.8	16.7	38	6.6
1900S-72	32.5	53.5	40	14.5	20	16.8	16.7	38	6.6