Dial Indicator

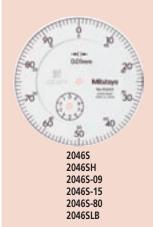
SERIES 2 — Standard Type, 0.01mm Resolution

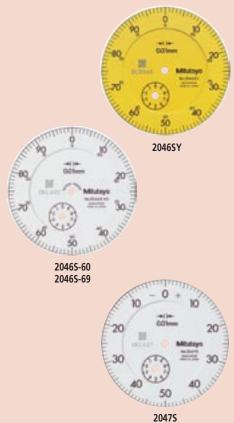
Series 2 dial indicators are Mitutoyo's most popular, and have the widest application.

FEATURES

- Standard 0.01mm graduation dial gauges having an outer frame with an outside diameter of 57mm. All types come with limit pins and an outer frame clamp as standard.
- The outer 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.
- Secured adhesion between the outer frame and crystal as well as the use of an O-ring ensure countermeasures against water and oil permeation via the front face.
- The stem spindle is made of high-strength quench-hardened stainless steel which resists strenuous use.
- A carbide contact point is used.
- The grand gear uses stainless steel that is resistant to wear and deformation.
- Application of a hard coating on the surface of the crystal makes the gauge highly scratch- and chemical-resistant.









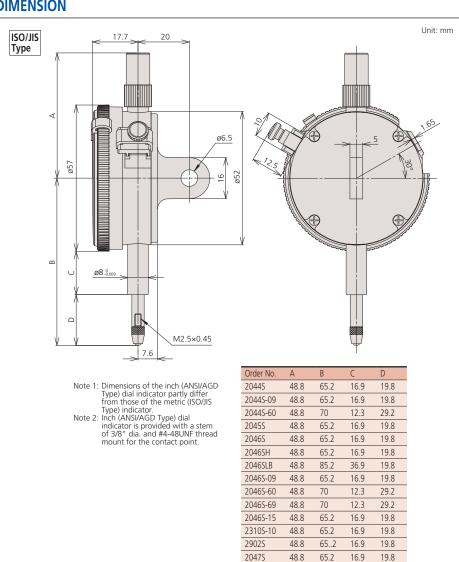
Reverse reading type

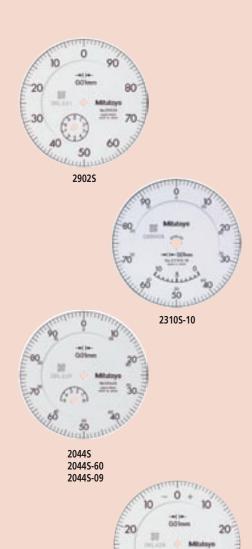
SPECIFICATIONS

Metric ISO/JIS type												
Graduation	Order No.		Range	Accuracy	Dial	Measuring	3	O	2X	₩		Ð
	w/ lug	Flat-back	(range/rev)	,	reading	force		2	لتقا	W	٢	**
0.01mm	2044S	2044SB	5mm (1mm)	±12µm	0-100	1.4N or less	_	_	_	_	_	_
0.01mm	20445-09	2044SB-09	5mm (1mm)	±13µm	0-100	1.4N or less	~	_	_	_	_	_
0.01mm	2044S-60	2044SB-60	5mm (1mm)	±12µm	0-100	2.5N or less	_	V	_	_	_	_
0.01mm	2045S	2045SB	5mm (1mm)	±12µm	0-50-0	1.4N or less	_	_	_	_	_	_
0.01mm	2046S	2046SB	10mm (1mm)	±13µm	0-100	1.4N or less	_	_	_	_	_	_
0.01mm	2046SY	2046SYB	10mm (1mm)	±13µm	0-100	1.4N or less	_	_	_	_	_	_
0.01mm	2046SH	2046SHB	10mm (1mm)	±8µm	0-100	1.4N or less	_	_	_	_	_	_
0.01mm	_	2046SLB	10mm (1mm)	±13µm	0-100	1.4N or less	_		~	_	_	_
0.01mm	2046S-09	2046SB-09	10mm (1mm)	±15µm	0-100	1.4N or less	V	_	_	_	_	_
0.01mm	2046S-60	2046SB-60	10mm (1mm)	±13µm	0-100	2.5N or less	_	V	_	_	_	_
0.01mm	2046S-69	2046SB-69	10mm (1mm)	±15µm	0-100	2.5N or less	~	V	_	_	_	_
0.01mm	2046S-15	2046SB-15	10mm (1mm)	±13µm	0-100	0.8N or less*	_	_	_	1	_	-
0.01mm	2310S-10	2310SB-10	10mm (1mm)	±15µm	0-100	1.4N or less	_	_	_	1	~	-
0.01mm	2902S	2902SB	10mm (1mm)	±13µm	100-0	1.4N or less					_	V
0.01mm	20475	2047SB	10mm (1mm)	±13µm	0-50-0	1.4N or less						_

^{*}Use in a vertical position only (contact point downward).

DIMENSION





Optional Accessory

Backs (See page 266.) Contact points (See page 264.)

20455

Dial Indicator

SERIES 2 — Standard Type, 0.001mm Resolution

FEATURES

- Standard 0.01mm graduation dial gauges having an outer frame with an outside diameter of ø57mm. All types come with limit pins and an outer frame clamp.
- The outer 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.
- Secured adhesion between the outer frame and crystal as well as the use of an O-ring ensure countermeasures against water and oil permeation via the front face.
- The stem spindle is made of high-strength quench-hardened stainless steel which resists strenuous use.
- A carbide contact point is used.
- The grand gear uses stainless steel that is resistant to wear and deformation.
- Application of a hard coating on the surface of the crystal makes the gauge highly scratch- and chemical-resistant.
- A special alloy is used for the sector gears to provide improved wear resistance.
- The bearing part uses jeweled bearings, providing excellent indication sensitivity and durability.



(Refer to the page 9 for details.)



2109S-10 2109SH-10 2109S-70 2109SLB-10









Double scale spacing type

SPECIFICATIONS

Metric ISO/JIS type												
Graduation	Order No.		Range	Accuracy	Dial	Measuring			Tay			
	w/ lug	Flat-back	(range/rev)	Accuracy	reading	force	3	\Box	Į2X			
0.005mm	21245-10	2124SB-10	5mm (0.5mm)	±12µm	0-50	1.5N or less		_	_	<	_	_
0.001mm	2110S-10	2110SB-10	1mm (0.1mm)	±5µm	0-100	1.5N or less	V	_	_	V	~	_
0.001mm	2110S-70	2110SB-70	1mm (0.1mm)	±5µm	0-100	2.0N or less	<	~	_	<	~	_
0.001mm	21095-10	2109SB-10	1mm (0.2mm)	±5µm	0-100-0	1.5N or less	<	_	_	~	_	_
0.001mm	2109SH-10	2109SHB-10	1mm (0.2mm)	±3µm	0-100-0	1.5N or less	~	_	_	/	_	_
0.001mm	_	2109SLB-10	1mm (0.2mm)	±5µm	0-100-0	1.5N or less	~	_	V	V	_	_
0.001mm	2109S-70	2109SB-70	1mm (0.2mm)	±5µm	0-100-0	2.0N or less	V	V	_	V	_	_
0.001mm	2113S-10	2113SB-10	2mm (0.2mm)	±7µm	0-100-0	1.5N or less	~	_	_	~	_	_
0.001mm	2118S-10	2118SB-10	5mm (0.2mm)	±10µm	0-100-100	1.5N or less	_	_	_	~	_	_
0.001mm	21195-10	2119SB-10	5mm (0.2mm)	±10µm	0-100-0	1.5N or less	_	_	_	~	_	_



2118S-10

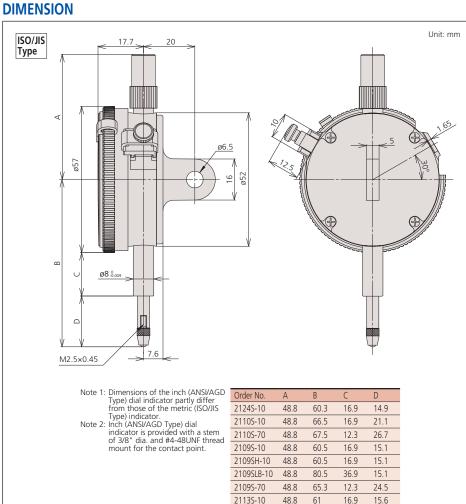


2119S-10



Optional Accessory

Backs (See page 266.) Contact points (See page 264.)



Order No.	А	В	С	D
2124S-10	48.8	60.3	16.9	14.9
2110S-10	48.8	66.5	16.9	21.1
2110S-70	48.8	67.5	12.3	26.7
2109S-10	48.8	60.5	16.9	15.1
2109SH-10	48.8	60.5	16.9	15.1
2109SLB-10	48.8	80.5	36.9	15.1
2109S-70	48.8	65.3	12.3	24.5
2113S-10	48.8	61	16.9	15.6
2118S-10	48.8	60.3	16.9	14.9
2119S-10	48.8	60.3	16.9	14.9