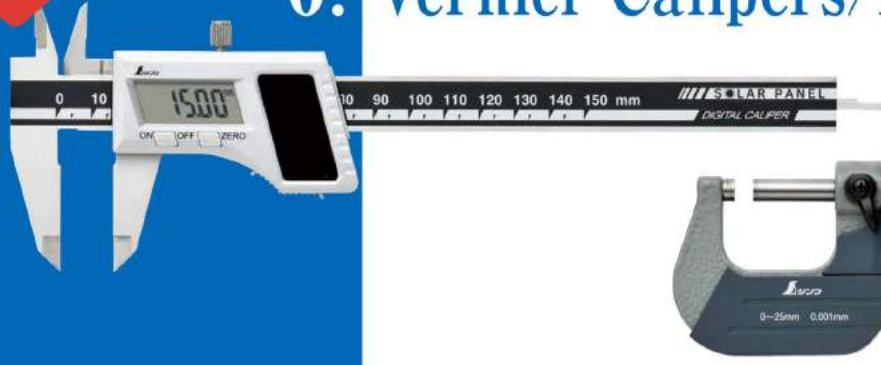


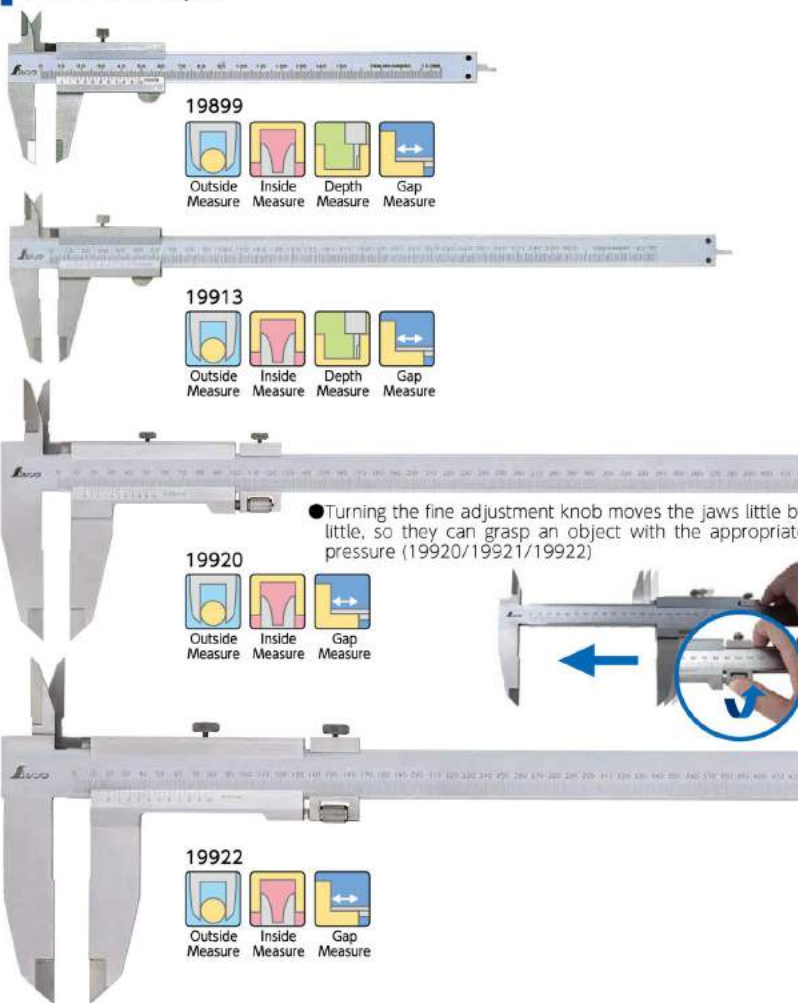


# 6. Vernier Calipers/Micrometers



Packaging  Shrink package  Box  Vinyl package + header card  Card  No package  
 Sleeve package  Bag  Clear package  Vinyl package

## Vernier Caliper



Features				
<ul style="list-style-type: none"> <li>● Easy-to-use standard vernier caliper</li> <li>● Includes storage case (19920/19921/19922)</li> </ul>				
Use				
<ul style="list-style-type: none"> <li>● For measuring outside, inside, depth, and gap (19899/19912/19913)</li> <li>● For measuring outside, inside, and gap (19920/19921/19922)</li> </ul>				
Specifications				
Body Size	a	19899 235 mm	19912 296 mm	19913 410 mm
	b	77 mm	90 mm	100 mm
	c	16 mm	18 mm	20 mm
	d	40 mm	50 mm	55 mm
	e	54 mm	55 mm	60 mm
	f	16 mm	16 mm	18 mm
	g	3.6 mm	3.6 mm	4.4 mm
	h	150 g	180 g	326 g
Product Weight	Stainless steel			
Material	Attached			
Depth Probe	±0.07 mm			
Accuracy	±0.08 mm			
Body Size	a	19920 620 mm	19921 770 mm	19922 1,220 mm
	b	159 mm	159 mm	221 mm
	c	38 mm	38 mm	50 mm
	d	90 mm	90 mm	130 mm
	e	92 mm	92 mm	124 mm
	f	24 mm	24 mm	32 mm
	g	—	—	—
	h	1,000 g	1,200 g	3,300 g
Product Weight	Stainless steel			
Material	None			
Depth Probe	±0.1 mm			
Accuracy	±0.15 mm			

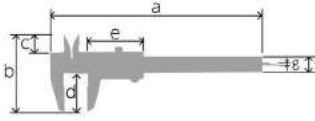
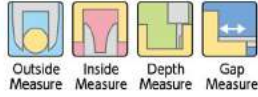
Item Code	Description	Measurement Range (mm)	Minimum Measurement Value (mm)	JAN Code	Packing Unit	Package
19899	150 mm	0.05 - 150	0.05	4 960910 198999	6	
19912	200 mm	0.05 - 200	0.05	4 960910 199125	6	<input checked="" type="checkbox"/>
19913	300 mm	0.05 - 300	0.05	4 960910 199132	6	
19920	450 mm <b>NEW</b>	0.05 - 450	0.05	4 960910 199200	1	
19921	600 mm <b>NEW</b>	0.05 - 600	0.05	4 960910 199217	1	<input checked="" type="checkbox"/>
19922	1000 mm <b>NEW</b>	0.05 - 1000	0.05	4 960910 199224	1	<input checked="" type="checkbox"/>

JIS JIS mark  With red numbers  cm/shaku (Upper side for Front metric / Lower side for Back shaku)  With magnet  Vial with luminous sheet  Thermometer  Double-sided tape  Letters in Japanese  With stopper  Oil  Glass lens  With edge  
 Japanese zodiac signs  With battery  shaku/cm (Upper side for Front shaku / Lower side for Back metric)  With non-slip pad  Thermometer/Hygrometer  Hygrometer  With tag/rope  Letters in English  With direction arrow  With grid scale  Plastic lens

### Mini Vernier Caliper



19894



Item Code	Description	Measurement Range (mm)	Minimum Measurement Value (mm)	JAN Code	Packing Unit	Packaging
19892	70 mm	0.05 - 70	0.05	4 960910 198920	10	SP
19894	100 mm	0.05 - 100	0.05	4 960910 198944	10	SP

#### Features

- Small size, portable
- Same high precision as larger model

#### Use

- For measuring outside, inside, depth, and gap

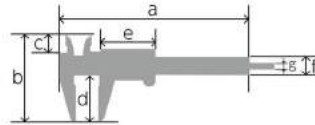
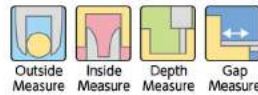
#### Specifications

	19892	19894
Body Size	a	114 mm
	b	39 mm
	c	8.5 mm
	d	18.5 mm
	e	28 mm
	f	8 mm
	g	1.7 mm
Weight	22 g	71 g
Material	Stainless steel	
Depth Probe	Attached	
Accuracy	±0.06 mm	

### Pocket Vernier Caliper



19518



Item Code	Description	Measurement Range (mm)	Minimum Measurement Value (mm)	JAN Code	Packing Unit	Packaging
19518	100 mm	0.1 - 100	0.1	4 960910 195189	10	SP

#### Features

- Small size, portable

#### Use

- For measuring outside, inside, depth, and gap

#### Specifications

Body Size	a	157 mm
	b	52 mm
	c	12 mm
	d	28 mm
	e	37 mm
	f	12 mm
	g	3.5 mm
Weight	39 g	
Material	Stainless steel	
Depth Probe	Attached	
Accuracy	±0.1 mm	

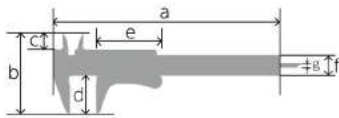
### Vernier Caliper Plastic Body



19514



19515



Item Code	Description	Measurement Range (mm)	Minimum Measurement Value (mm)	JAN Code	Packing Unit	Packaging
19514	70 mm	0.1 - 70	0.1	4 960910 195141	10	SP
19515	100 mm	0.1 - 100	0.1	4 960910 195158	10	SP

#### Features

- Light and compact, easy carrying
- Strap hole
- Polycarbonate is tough and stable. Rustproof and will not scratch other surfaces

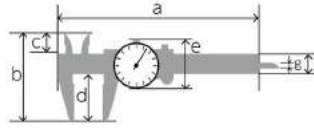
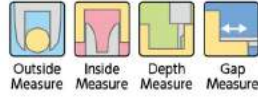
#### Use

- For measuring outside, inside, depth, and gap

#### Specifications

	19514	19515
Body Size	a	114 mm
	b	40 mm
	c	8 mm
	d	19 mm
	e	30 mm
	f	10.5 mm
	g	2.7 mm
Weight	6 g	15 g
Material	Polycarbonate	
Depth Probe	Attached	
Accuracy	±0.1 mm	

## Fiberglass Dial Caliper



Item Code	Description	Measurement Range (mm)	Minimum Measurement Value (mm)	JAN Code	Packing Unit	Package
19932	150 mm	0.1 - 150	0.1	4 960910 199323	5	C

### Features

- Easy-to-read scale
- Will not scratch other surfaces

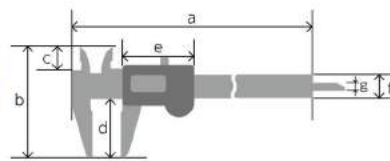
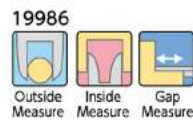
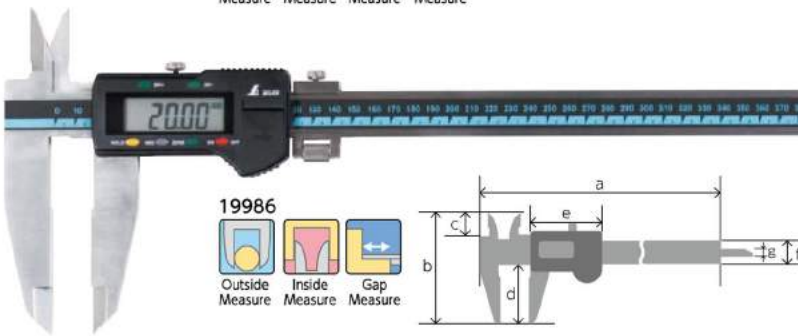
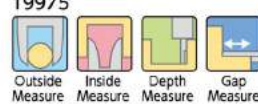
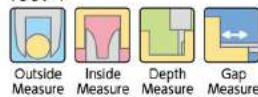
### Use

- For measuring outside, inside, depth, and gap

### Specifications

Body Size	a	224 mm
	b	77 mm
	c	14 mm
	d	39 mm
	e	38 mm
	f	16 mm
	g	3.8 mm
Weight	44 g	
Material	Nylon resin (with fiberglass)	
Depth Probe	Attached	
Accuracy	±0.1 mm	

## Digital Vernier Caliper with Hold Function



Item Code	Description	Measurement Range (mm)	Minimum Measurement Value (mm)	JAN Code	Packing Unit	Package
19974	Mini 100 mm	0.01 - 100	0.01	4 960910 199743	3	S
19975	150 mm	0.01 - 150	0.01	4 960910 199750		
19976	200 mm	0.01 - 200	0.01	4 960910 199767		
19977	300 mm	0.01 - 300	0.01	4 960910 199774	1	B
19986	450 mm	0.01 - 450	0.01	4 960910 199866		
19987	600 mm	0.01 - 600	0.01	4 960910 199873		
19988	1000 mm	0.01 - 1,000	0.01	4 960910 199880		

### Features

- Ideal for precision work with a minimum reading value of 0.01 mm
- Zero set function enables relative measurement or indirect measurement
- Hold function is useful when the screen cannot be seen
- Moisture resistant (19974/19975/19976/19977)
- Able to measure large objects (19986/19987/19988)
- Preset function enables to adjust zero point in 0.01 mm units (19986/19987/19988)



### Use

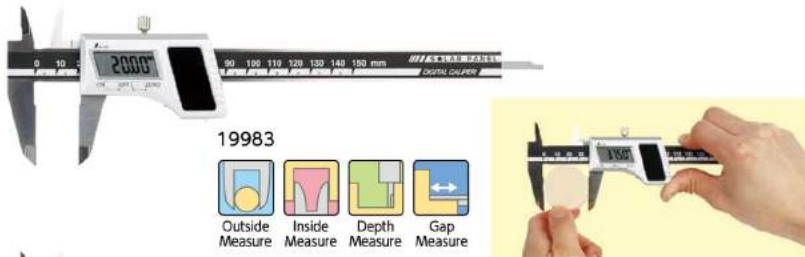
- For measuring outside, inside, depth (19974/19975/19976/19977), and gap
- For relative measurement and indirect measurement

### Specifications

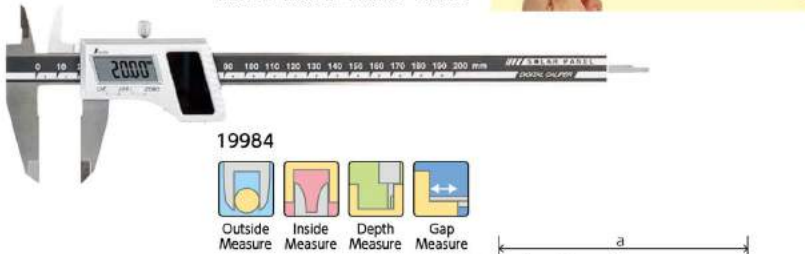
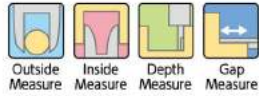
Body Size	a	167 mm	235 mm	294 mm	400 mm	626 mm	776 mm	1,233 mm
	b	60 mm	77 mm	90 mm	102 mm	169 mm	169 mm	216 mm
	c	12 mm	15 mm	19 mm	19 mm	38 mm	38 mm	50.8 mm
	d	30 mm	40 mm	50 mm	60 mm	100 mm	100 mm	125 mm
	e	50 mm	62 mm	62 mm	62 mm	100 mm	100 mm	130 mm
	f	13 mm	16 mm	16 mm	17 mm	24 mm	24 mm	31 mm
	g	3.6 mm	3.6 mm	3.6 mm	3.6 mm	-	-	-
	Weight	92 g	155 g	179 g	280 g	980 g	1,100 g	2,400 g
	Material	Body: Stainless steel		Display Unit: ABS resin				
	Depth Probe	Attached		None				
Accuracy	±0.03 mm		±0.04 mm		±0.05 mm		±0.1 mm	
Minimum Reading	0.01 mm							
Repeatability	0.01 mm							
Use Temperature	0 - 40°C							
Storage Temperature	-10 - 60°C							
Storage Humidity	Below 80%							
Battery	1x Silver oxide battery SR44		1x Lithium battery CR2032					
(Battery included is for trial use only and may not last as long)								

\*Repeatability means the precision earned after repeated measurement.

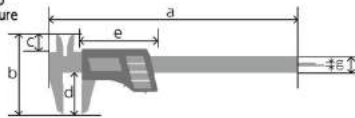
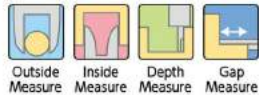
### Digital Vernier Caliper with Solar Panel



19983



19984



Item Code	Description	Measurement Range (mm)	Minimum Measurement Value (mm)	JAN Code	Packing Unit	Package
19983	150 mm	0.01 - 150	0.01	4 960910 199835	3	SP
19984	200 mm	0.01 - 200	0.01	4 960910 199842	3	SP

#### Features

- Ideal for precision work with a minimum reading value of 0.01 mm
- Dual power model with solar panel and lithium battery
- \*Solar panel reduces the use of battery when surrounding illuminance is over 200 lux.
- Zero set function enables relative measurement or indirect measurement
- Auto power off function

#### Use

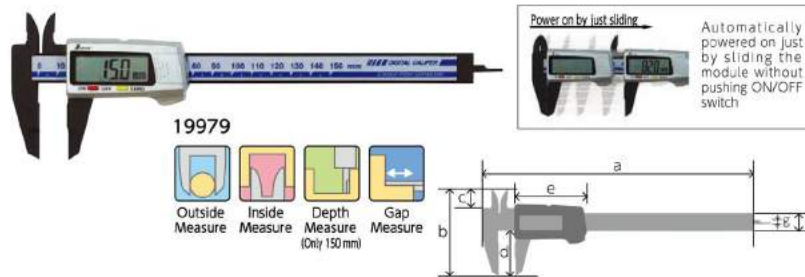
- For measuring outside, inside, depth, and gap
- For relative measurement and indirect measurement

#### Specifications

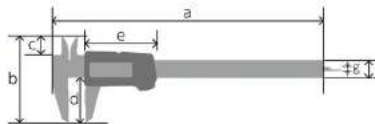
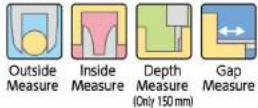
	19983	19984
Body Size	a	235 mm
	b	76 mm
	c	16 mm
	d	40 mm
	e	70 mm
	f	16 mm
	g	3.7 mm
	g	3.7 mm
Weight	160 g	187 g
Material	Body: Stainless steel	Display Unit: ABS resin
Depth Probe	Attached	
Accuracy	±0.03 mm	
Minimum Reading	0.01 mm	
Repeatability	0.01 mm	
Use Temperature	0 - 40°C	
Storage Temperature	-10 - 60°C	
Storage Humidity	Below 80%	
Battery	Solar panel / 1x Lithium battery CR2016 (Battery included is for trial use only and may not last as long)	

- \*Always use the item with a battery installed. Using it without a battery may cause malfunction.
- \*Repeatability means the precision earned after repeated measurement.

### Digital Vernier Caliper Carbon Fiber Body



19979



Item Code	Description	Measurement Range (mm)	Minimum Measurement Value (mm)	JAN Code	Packing Unit	Package
19978	100 mm	0.1 - 100	0.1	4 960910 199781	5	C
19979	150 mm	0.1 - 150	0.1	4 960910 199798	5	C

#### Features

- Automatically powered on/off just by sliding the module (19978/19979)
- With auto power off function
- Zero set function enables relative measurement or indirect measurement
- Will not scratch other surfaces
- Strap hole (19978)
- Dual power model with solar panel and lithium battery
- \*Solar panel reduces the use of battery when surrounding illuminance is over 200 lux.

#### Use

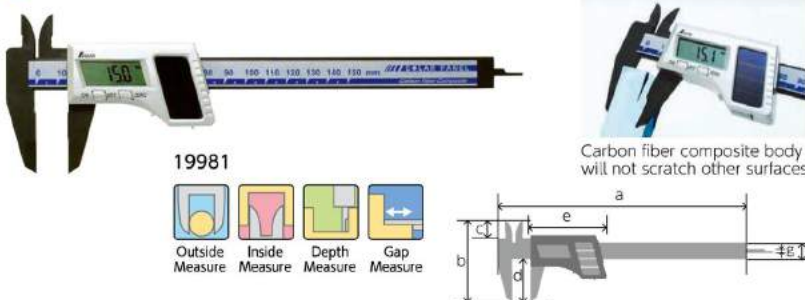
- For measuring outside, inside, depth (19979/19981), and gap
- For relative measurement and indirect measurement

#### Specifications

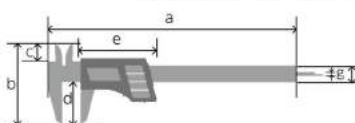
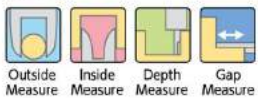
	19978	19979	19981
Body Size	a	178 mm	237 mm
	b	61 mm	77 mm
	c	12 mm	16 mm
	d	30 mm	40 mm
	e	50 mm	63 mm
	f	13 mm	16 mm
	g	—	3.9 mm
	g	—	3.9 mm
Weight	34 g	56 g	59 g
Material	Body: Carbon fiber composite Display Unit: ABS resin		
Depth Probe	None	Attached	
Accuracy	Outside Measurement: ±0.3 mm Inside Measurement: ±0.3 mm		
Minimum Reading	0.1 mm		
Repeatability	0.1 mm		
Use Temperature	0 - 40°C		
Storage Temperature	-10 - 60°C		
Storage Humidity	Below 80%		
Battery	1x Silver oxide battery SR44		Solar panel / 1x Lithium battery CR2016 (Battery included is for trial use only and may not last as long)

- \*Always use the item with a battery installed. Using it without a battery may cause malfunction.
- \*Repeatability means the precision earned after repeated measurement.

### Digital Vernier Caliper Carbon Fiber Body with Solar Panel



19981



Item Code	Description	Measurement Range (mm)	Minimum Measurement Value (mm)	JAN Code	Packing Unit	Package
19981	150 mm	0.1 - 150	0.1	4 960910 199811	5	C