

# IP54 WATERPROOF DIGITAL CALIPERS

- IP54 dust/waterproof
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch, ABS/REL
- Automatic power off after 10 minutes of no operation, move the digital unit or press the on/off button to power on  
Automatic power off after 72 hours of no operation, move digital unit cannot power on, press the on/off button to power on
- Battery CR2032
- Data output
- Meet DIN862
- Made of stainless steel

DATA  
OUTPUT

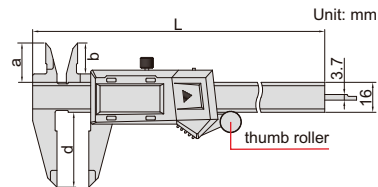
IP54  
WATERPROOF

INSPECTION  
CERTIFICATE



1104-150

(mm)							
Code	Range	Thumb roller	Accuracy	L	a	b	d
1104-150	0-150mm/0-6"	with	±0.02mm	234	20	15	40
1104-200	0-200mm/0-8"	with	±0.02mm	286	24	19	50
1104-300	0-300mm/0-12"	with	±0.03mm	390	26	21.5	60
1104-150W	0-150mm/0-6"	without	±0.02mm	234	20	15	40
1104-200W	0-200mm/0-8"	without	±0.02mm	286	24	19	50
1104-300W	0-300mm/0-12"	without	±0.03mm	390	26	21.5	60





ATTENTION:  
NO DATA OUTPUT

IP67  
WATERPROOF

## IP67 WATERPROOF DIGITAL CALIPERS

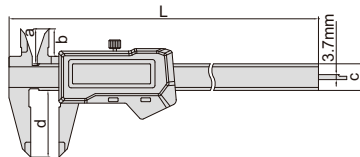
- IP67 dust/waterproof
- Resolution: 0.01mm/0.0005"
- Large display
- Button function: zero, on/off, mm/inch
- Battery CR2032
- Made of stainless steel



1126-150

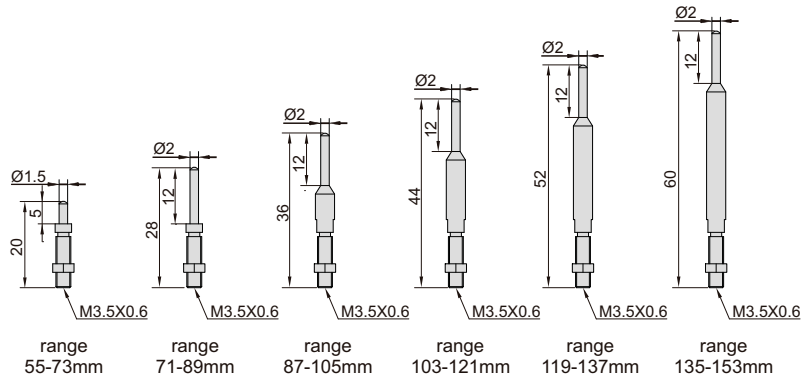
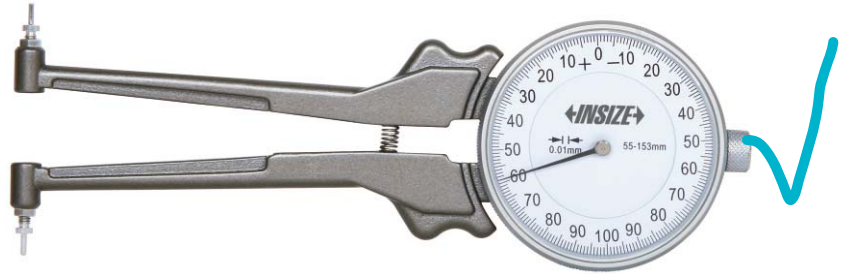
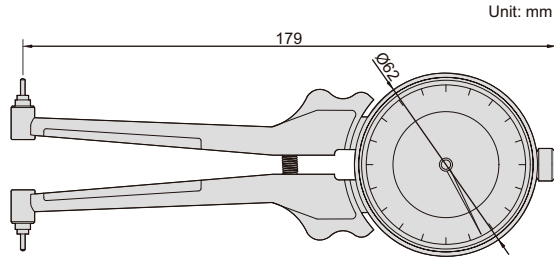


Code	Range	Accuracy	L	a	b	c	d
1126-150 *	0-150mm/0-6"	±0.03mm	234mm	20mm	15mm	16mm	40mm
1126-200 *	0-200mm/0-8"	±0.03mm	286mm	24mm	19mm	16mm	50mm
1126-300 *	0-300mm/0-12"	±0.03mm	390mm	26mm	21.5mm	16mm	60mm



\* Supplied with manufacturer inspection certificate traceable to DKD Germany

# INTERNAL DIAL CALIPER GAGE WITH INTERCHANGEABLE POINTS

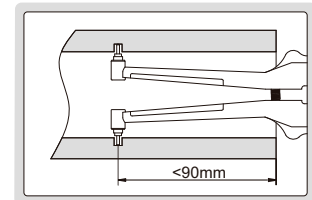


6 pair of points (included)



- Supplied with 6 pairs of points

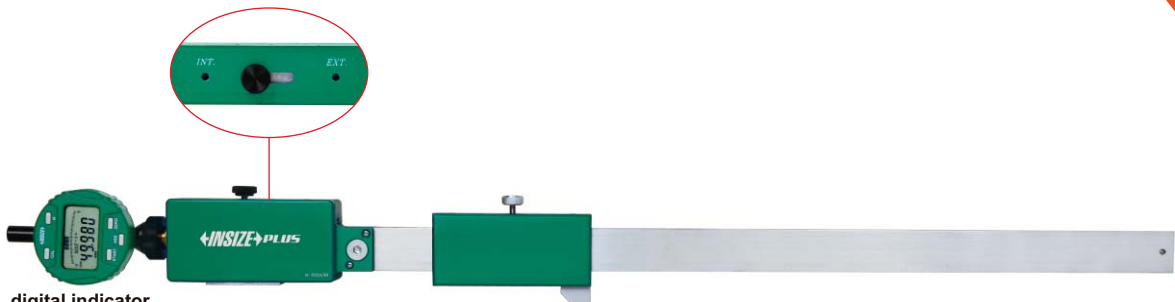
Code	Range	Dial indicator range	Graduation	Accuracy
2223-153	55-153mm	2mm	0.01mm	±0.02mm



# UNIVERSAL COMPARISON GAGE

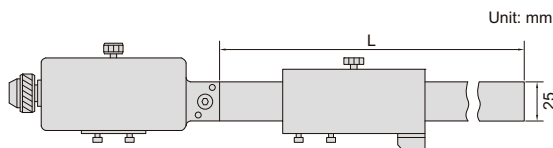
**INSIZE PLUS**  
MADE IN ITALY

internal and external measurement switch



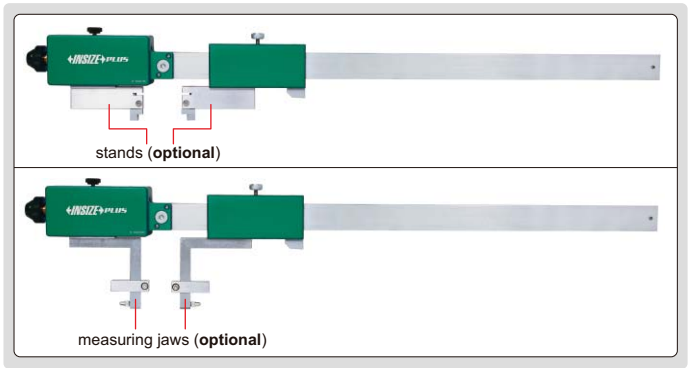
digital indicator  
is optional

**2925-M300**



- For measuring external diameter, internal diameter, center distance, etc
- Moving range of probe: 10mm, effective measuring range  $\pm 2\text{mm}$
- Optional accessory:  
cylinder gage blocks (**4001** series),  
gage block accessories (**6881** series),  
gage block holder (**6886** series)

working with stands or measuring jaws



Code	External Range	Internal Range	L	Repeatability*	Accuracy*
<b>2925-M300</b>	0-300mm/0-12"	25-300mm/1"-12"	400mm	2 $\mu\text{m}$	5 $\mu\text{m}$
<b>2925-M500</b>	0-500mm/0-20"	25-500mm/1"-20"	620mm	2 $\mu\text{m}$	5 $\mu\text{m}$
<b>2925-M1000</b>	0-1000mm/0-40"	25-1000mm/1"-40"	1150mm	2 $\mu\text{m}$	5 $\mu\text{m}$

\* Repeatability and accuracy are assured within the effective range of  $\pm 2\text{mm}$  after zero setting

Digital indicator (optional)

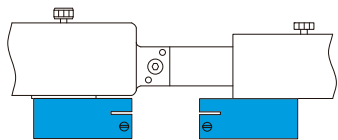
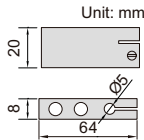


Resolution: 0.001mm/0.00005"

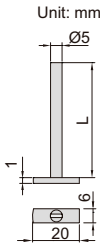
Code	Range
<b>2103-10F</b>	12.7mm/0.5"

Stands (optional, supplied in pair)

Code
<b>2925-C</b>

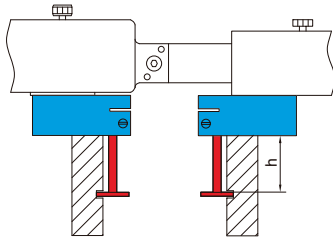


Rectangular points (optional, supplied in pair)



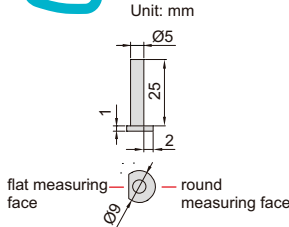
(mm)

Code	L
<b>2925-P101</b>	25
<b>2925-P102</b>	60

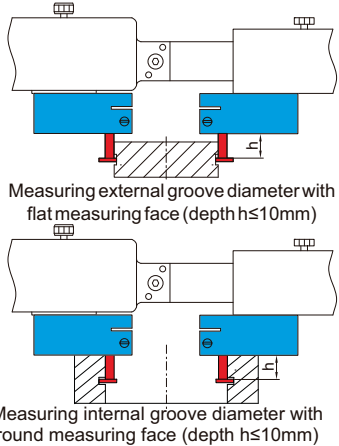


Measuring the distance between  
two parallel planes  
(**2925-P101** depth  $h < 12\text{mm}$ )  
(**2925-P102** depth  $h < 45\text{mm}$ )

disk points (optional, supplied in pair)

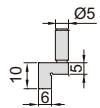


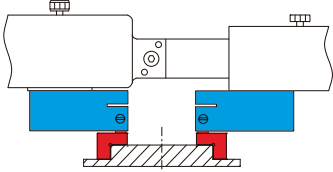
Code
<b>2925-S101</b>



Flat shoulder points (optional, supplied in pair)

Unit: mm



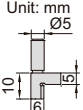


Measuring outside diameter of shallow steps

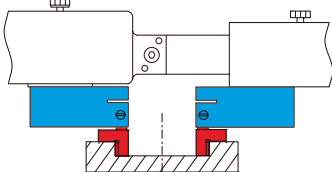
Code

2925-J101

Round shoulder points (optional, supplied in pair)



Unit: mm




Measuring inside diameter of shallow holes

Code

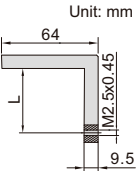
2925-J201

Measuring jaws (optional, supplied in pair)

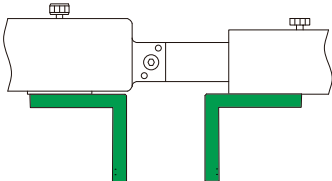


2925-Z50

Unit: mm



Code	Length (L)
2925-Z50	25mm
2925-Z75	50mm
2925-Z100	100mm



Depth stops (optional, supplied in pair)



2925-H

Unit: mm




Code

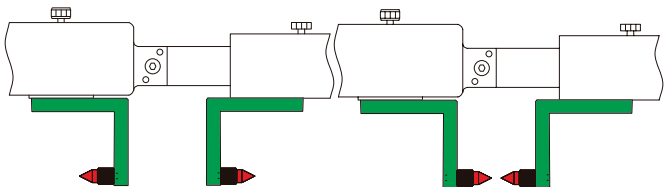
2925-H



Points (optional, supplied in single)


Page (126~128)





Multifunctional points 7392\* (optional, supplied in pair)

Page 22

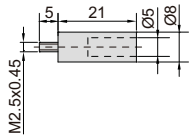


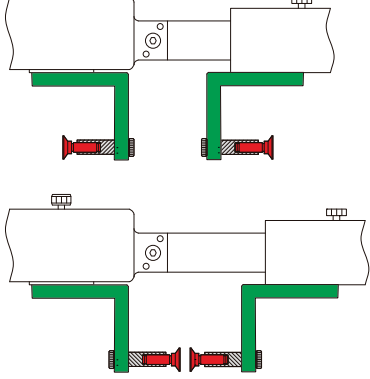
Point sleeves (optional, supplied in pair)

Code

2923-T101

Unit: mm





Points can rotate

\* It is necessary to use point sleeves (code 2923-T101) for these points

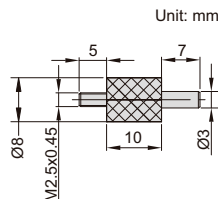
**Ball points 7383\*** (optional, supplied in pair)  
Page 52



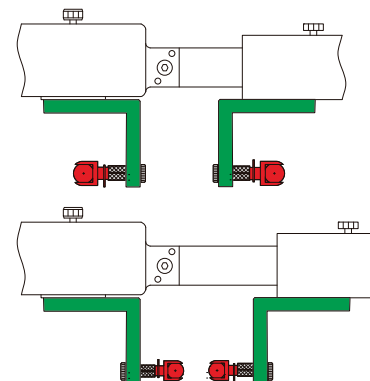
**Point sleeves**  
(optional, supplied in pair)

**Code**

**2923-T201**



\* It is necessary to use point sleeves (code **2923-T201**) for these points



Points can rotate

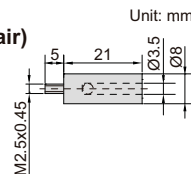
**Measuring points for external screw thread micrometers 7384\*** (optional, supplied in pair)  
Page 51



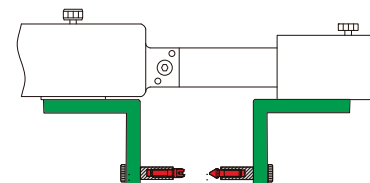
**Point sleeves**  
(optional, supplied in pair)

**Code**

**2923-T301**



\* It is necessary to use point sleeves (code **2923-T301**) for these points



Points can rotate

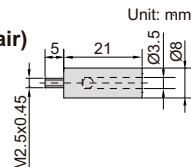
**Measuring points for internal screw thread micrometers 7385\*** (optional, supplied in pair)  
Page 51



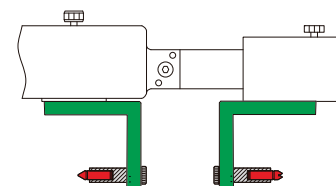
**Point sleeves**  
(optional, supplied in pair)

**Code**

**2923-T301**



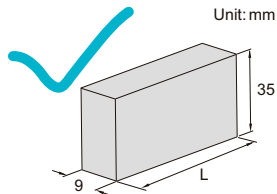
\* It is necessary to use point sleeves (code **2923-T301**) for these points



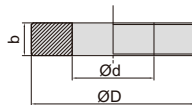
Points can rotate



# CALIPER INSPECTION GAGE BLOCK AND SETTING RING SET



- Gage blocks meet ISO3650/grade 2  
Setting rings meet DIN2250-1:2008
- Supplied with manufacturer inspection certificate



setting ring sizes:

diameter(Ød)*	b	ØD
Ø4mm	5mm	22mm
Ø25mm	14mm	53mm

\*The size of the setting ring when supplied may have deviation. For example, the ordered size is Ø25mm, the size when supplied may be 24.996mm



4176-30

Code	Material	Gage blocks included in set (L)	Setting rings included in set (Ød)	Applicable calipers
4176-30	alloy steel	30, 41.3, 131.4	4, 25	0-150

(mm)

ATTENTION: NO ANTI-RUST  
TREATMENT, NOT HARDEND

ATTENTION:  
LOW ACCURACY

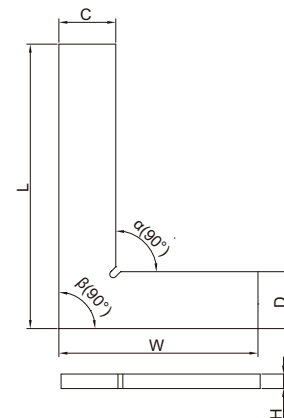
## MACHINIST SQUARES (ECONOMIC TYPE)

- DIN875 grade 2
- Made of carbon steel, no anti-rust treatment, not hardend

Code	Size (LxW)	Squareness		C	D	H
		Inside ( $\alpha$ )	Outside ( $\beta$ )			
4796-50	50×30mm	24 $\mu$ m	25 $\mu$ m	12	12	3
4796-75	75×50mm	26 $\mu$ m	28 $\mu$ m	16	16	3
4796-100	100×70mm	28 $\mu$ m	30 $\mu$ m	19	19	5
4796-125	125×80mm	30 $\mu$ m	33 $\mu$ m	22	22	5
4796-150	150×100mm	33 $\mu$ m	35 $\mu$ m	25	25	6
4796-200	200×130mm	38 $\mu$ m	40 $\mu$ m	25	25	6
4796-250	250×165mm	43 $\mu$ m	45 $\mu$ m	25	25	6
4796-300	300×200mm	47 $\mu$ m	50 $\mu$ m	30	30	6
4796-350	350×200mm	51 $\mu$ m	55 $\mu$ m	38	38	6
4796-400	400×200mm	56 $\mu$ m	60 $\mu$ m	38	38	9
4796-450	450×250mm	58 $\mu$ m	65 $\mu$ m	38	38	9
4796-500	500×300mm	69 $\mu$ m	70 $\mu$ m	38	38	9



4796-150





## DEPTH BASE ATTACHMENTS

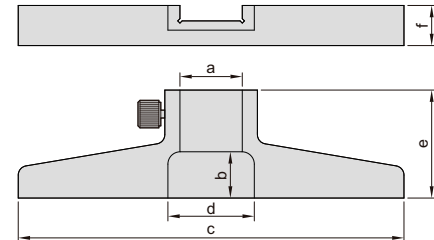
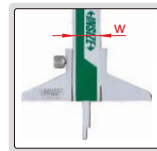


**6140**



**6140-16B**

- To increase the stability of depth measurement
- Suitable for digital calipers and dial calipers
- Made of stainless steel



(mm)

Code	a	b	c	d	e	f	type	Application
<b>6140</b>	16.5	9	75	18	30	6	narrow base(f=6)	Suitable for calipers with beam width (w) 16mm
<b>6140-300A</b>	20	15	125	22	34	9	narrow base(f=9)	Suitable for calipers with beam width (w) 20mm
<b>6140-16B</b>	16	12.5	75	24.5	30	11	wide base(f=11), high stability	Suitable for calipers with beam width (w) 16mm
<b>6140-300B</b>	20	15	125	28	35	13	wide base(f=13), high stability	Suitable for calipers with beam width (w) 20mm

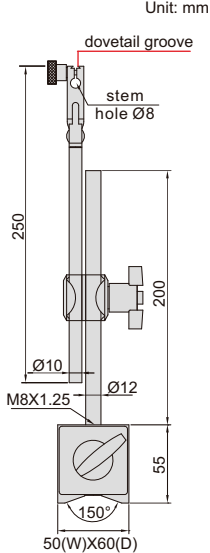
# MAGNETIC STAND

- For digital/dial indicators and dial test indicators

Code	Magnetic force	Applicable holding stem	Remark
6216-80	80kgf	Ø8mm	with fine adjustment and dovetail groove



6216-80



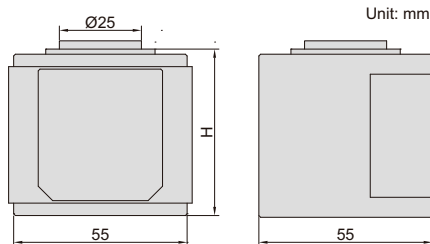


6557-50



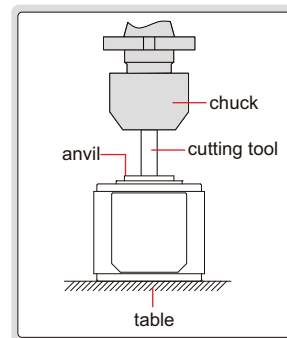
**IP65**  
WATERPROOF

## DIGITAL ZERO SETTER



- Resolution: 0.001mm/0.00005"
- IP65 dust/waterproof
- Buttons: on/off, mm/inch, zero
- CR2032 battery
- Automatic power off after 10 minutes of no operation, move anvil or press the power button to power on
- Automatic power off after 72 hours of no operation, move anvil cannot power on, press the power button to power on
- Magnetic base
- Automatic backlight at zero

automatic backlight at zero



Code	Height (H)	Anvil stroke	Accuracy*	Testforce	Repeatability
6557-50	50mm	3mm	±5μm/0.0002"	4N (at 50mm)	2μm

\*The accuracy is ensured within Ø10mm of the center

# DIAL INDICATOR STANDS



6862-1001



6862-1002



6862-1001T

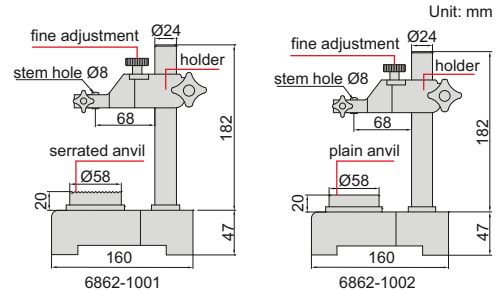


6862-1002T

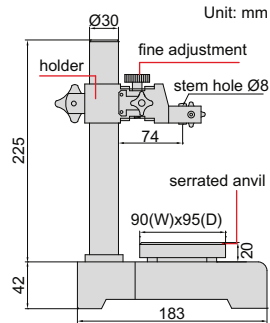


- Vertical travel of holder: 100mm
- Fine adjustment range: 2mm
- Supplied with dust cover

Code	Applicable holding stem	Anvil
6862-1001	Ø8mm	steel (hardness HRC60±2), serrated, flatness 1.5µm
6862-1002	Ø8mm	steel (hardness HRC60±2), plain, flatness 1.5µm
6862-1001T	Ø8mm	ceramic, serrated, flatness 1.5µm
6862-1002T	Ø8mm	ceramic, plain, flatness 1.5µm



- Vertical travel of holder: 150mm
- Fine adjustment range: 2mm
- Supplied with dust cover



Code	Applicable holding stem	Anvil
6863-150	Ø8mm	steel (hardness HRC60±2), serrated, flatness 1.5µm
6863-150T	Ø8mm	ceramic, serrated, flatness 1.5µm



## DIAL INDICATOR STANDS



6863-150



6863-150T

# DIAL INDICATOR STANDS

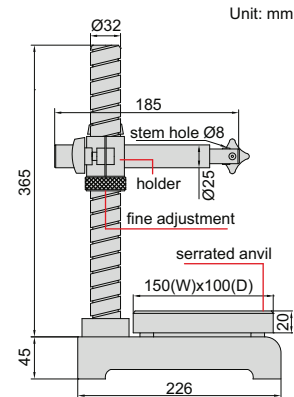
- Vertical travel of holder: 250mm
- Fine adjustment range: entire stroke
- Supplied with dust cover



6864-250



6864-250T



Code	Applicable holding stem	Anvil
6864-250	Ø8mm	steel (hardness HRC60±2), serrated, flatness 1.5µm
6864-250T	Ø8mm	ceramic, serrated, flatness 1.5µm

# ADAPTERS FOR DATA OUTPUT CABLE

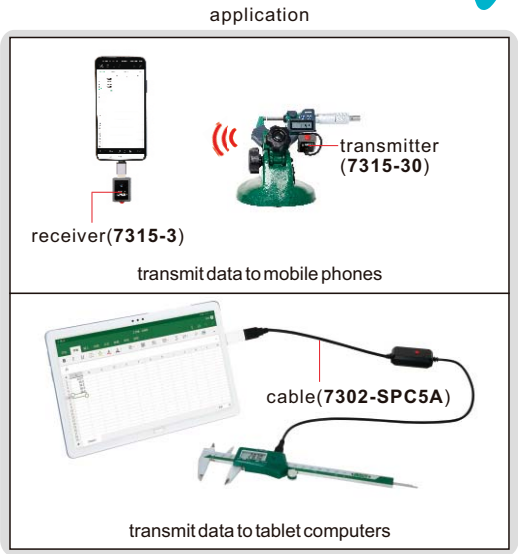


7323-OTGM



7323-OTGC

- Connect data output cables or wireless receivers to mobile phones、tablet computers(Type-C or Micro-USB interface)
- Data can be transmitted to any app that can receive keyboard signal (such as Excel, WPS, memorandum and other data management softwares)



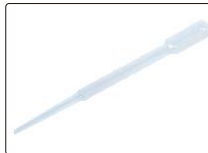
Code	Applicable interface of mobile phones or tablet computers	Plug type	Applicable products
7323-OTGM	Micro-USB		
7323-OTGC	Type-C		

SUITABLE FOR WATER  
BASED COOLANT

## DIGITAL REFRACTOMETER CODE ISQ-DRM31

- Quickly measure the concentration of coolant
- Two measurement modes:  
single measurement and automatic average multiple measurement
- Two units: brix and refractive index
- Refer to the refraction factor of coolant, for example:  
the refraction factor of grinding emulsion is 2.1,  
the reading value is 6%, so the actual concentration is  $(2.1 \times 6\%) = 12.6\%$
- Automatic power off

dropper (included)



### SPECIFICATION

Measuring range	0~50% (1.3330~1.4200RI)
Accuracy	±0.2% (±0.0003RI)
Resolution	0.1% (0.0001RI)
Power supply	1×AAA battery
Dimension	121×58×25mm
Weight	90g

### STANDARD DELIVERY

Main unit	1 pc
Dropper	1 pc
Battery (AAA)	1 pc