

# MEASURING INSTRUMENTS

CATALOGUE NO. 104



# QUALITY | INNOVATION | SERVICE | VALUE





**♦///\$/ZE→** is our standard quality

**♦///SIZE** is our premium quality



The products with this mark are supplied with manufacturer inspection certificate.

<b>←//</b> /	SIZE+		Inspect	ion Certi	ficate			
Product name		Digital Caliper		Traceable to	USA NIST No.8	321/279484-10		
Code No.		1108-150			Germany DKD	No.D-K-15190-	01-00	
Measuring rang	je	0-150mm / 0-6"		Inspector	Dariel			
Resolution		0.01mm / 0.000	05*	#ISPECIOI	Land			
Serial No.		0910120004		Judgement	Passed			
Standard temperature		20°C / 68°F						
		Unit: inch					Unit: mr	
Measuring	Permissible	Er	ror	Measuring	Permissible	Error		
Length	Error	External	Internal	Length	Error	External	Interna	
0.4 D <b>I</b> A	+0.0005 -0.0010	1	0.0005	Ф10	+0.01 -0.02	1	0.01	
2	+0.0010	-0.0005	/	50	+0.02	-0.01	- 1	
4	20,0010	-0.0005	/	100	10.02	-0.01	- 1	
6		-0.0010	/	150		-0.02	1	
8	±0,0015	1	/	200	±0.03	1	1	
10	10.0015	1	/	250	1 ±0.03	1	1	
12	1	/	/	300	7	/	1	



Please scan QR code to watch the videos of products.



How to search:

- 1. Search for products according to category in PRODUCT INDEX (next 5 pages)
- 2. Search for products in CODE NO. INDEX (page 471-474)
- 3. Search for products in APPLICATION INDEX OF MEASURING TOOLS (page 475-480)

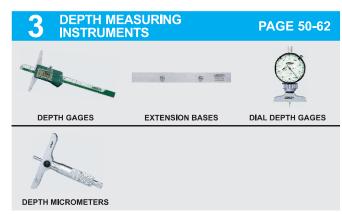
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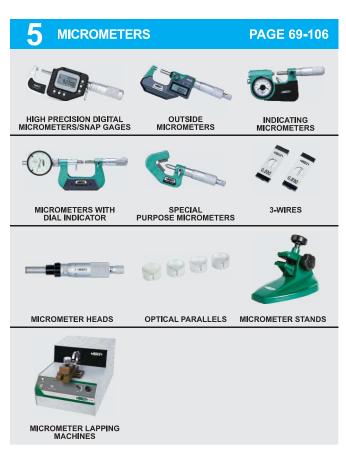
















THREAD RING GAGES

THREAD PLUG GAGES

PLAIN PLUG GAGES

THREADED HOLE GAGES







PAGE 276-300

PERMANENT MAGNETIC CHUCKS

ADJUSTABLE ANGLE BLOCKS

PRECISION UNIVERSAL VISES

CENTERING INDICATOR

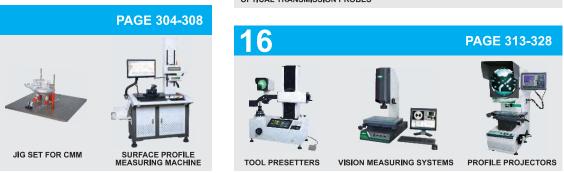
ZERO SETTERS

**PAGE 309-312** 

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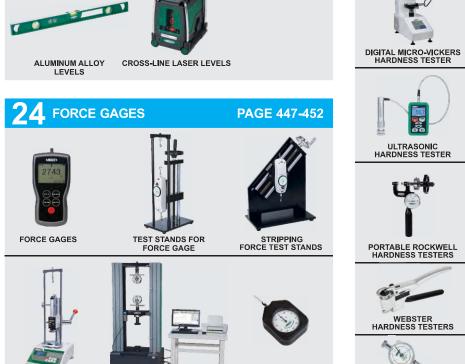
AIR GAGES





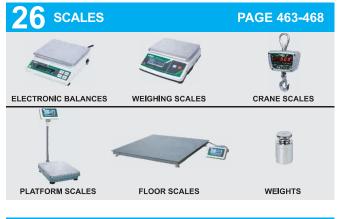










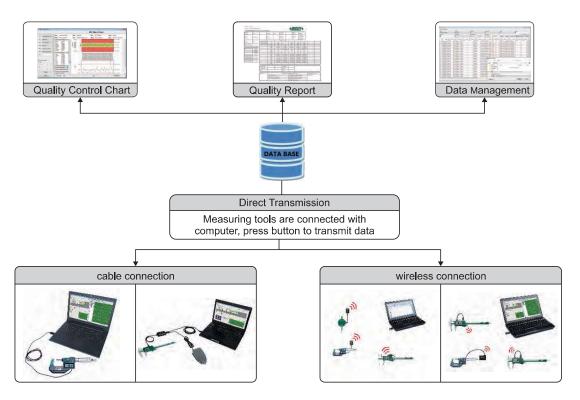






# MEASURING DATA MANAGEMENT SOFTWARE CODE 7316-10





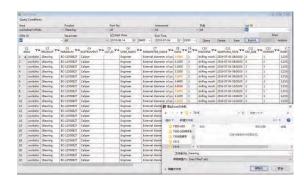
#### **Direct Transmission**

■ Transmit data through cables or wireless systems



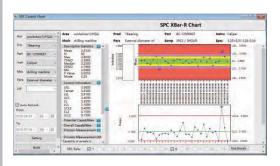
### **Data Management**

Measuring data are stored in database



#### **Quality Control Chart**

■ Analyze the tendency of data, make production adjustment in advance



#### **Quality Report**

Generate different EXCEL report formats according to requirements



## **WIRELESS DATA TRANSMISSION SYSTEM**

- Transmission distance is 10 meter
   Press the button to transmit data
   7315-2 is supplied with EXCEL directional input software, each measuring tool is only displayed in the specified area







transmitter 7315-21

receiver 7315-2

receiver 7315-3

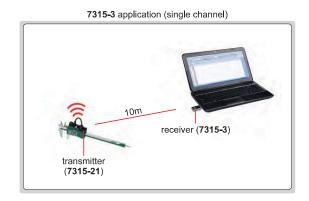
Code	Description	Plug to product	Remark
7315-2	multichannel receiver		<ul> <li>Connected with maximum 8 transmitters, each of them has unique identification code.</li> <li>Text format virtual com port, converted to keyboard format with supplied software (data can be transmitted to EXCEL, WORD etc. and any software which receives keyboard signal)</li> <li>Using EXCEL directional input software, the measurement data of different measuring tools can be transmitted to the specified area in the sheet.</li> </ul>
7315-3	single channel receiver		<ul> <li>Connected with 1 transmitter only, transmitter can be changed as needed.</li> <li>Recognized as HID keyboard device by computer, no need to install drivers and softwares</li> <li>Data can be transmitted to Excel, Word, txt and other files(press transmit button of transmitter, which is recognized by the computer as keyboard input data and press enter, such as 12.34 ∠)</li> <li>Suitable for any softwares which can receive keyboard signal</li> </ul>
7315-21	transmitter for digital calipers	transmit button	signal light transmit button transmit button digital calipers and digital depth gages
7315-22	transmitterfor large digital calipers	-111	signal light signal light transmit button large digital calipers (range ≤1000mm) and digital height gages
7315-30	transmitter for digital micrometers	-	digital micrometers  transmit button  signal light
7315-50M	transmitter for digital indicators	-111	digital indicators, digital thickness gages and digital internal/external caliper gages
7315-60	transmitter for high precision digital indicators		signal light transmit button  2140-6 and 2133 series high precision digital indicators 3350 series high precision digital snap gages

To be continued

#### Continued from previous page







Excel directional input software (included in 7315-2), application example 1

Set the display area of caliper at B4-B9, the readings of caliper are displayed at B4, B5...B9. Set the display area of micrometer at C4-C9, the readings of micrometer are displayed at C4, C5... C9. Set the display area of height gage at D4-D9, the readings of height gage are displayed at D4, D5... D9.

	A	В	C	D
1	Project	Length	Width	Height
2	Dimension and Tolerance	50±0.05	24±0.01	10+0.05/-0.06
3	Measuring tool	Caliper	Micrometer	Height gage
4	1	50.02	24.004	9.98
5	2	50.01	24.010	10.01
6	3	49.99	23.990	10.02
7	4	50.00	23.996	9.99
8	5	50.04	24.000	10.01
9	6	Channel 1	Channel 2	Channel 3
	Serial of workpieces		next data displ	

Excel directional input software (included in 7315-2), application example 2

Set the display area of micrometer at B4-C9, data input is from the left to the right, the readings of micrometer are displayed at B4, C4, B5, C5... B9, C9. Set the display area of caliper at D4-D9, the readings of caliper are displayed at D4, D5... D9.

Set the display area of depth gage at E4-E9

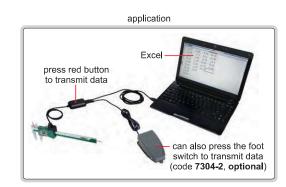
the readings of depth gage are displayed at E4, E5... E9.

	A	T.	C	D	E
1	Project	External diameter1	External diameter2	Length	Depth
2	Dimension and Tolerance	Ф23+0.01/-0.02	Ф21+0.01/-0.02	50±0,04	28±0,05
3	Measuring tool	Micrometer	Micrometer	Caliper	Depth gage
1	1	23,010	21.008	49.98	28.01
5	2	23.010	21,000	49.98	27.98
5	3	22,999	21,000	50	28
7	4	23.007	20.998	50	28
3	5	23.000	20.985	50.01	28.01
,	6	23.008	Channel 1	Channel 2	Channel 3

### DATA OUTPUT CABLES (KEYBOARD FORMAT)







■ Recognized as HID keyboard device by computer, no need to install drivers and softwares

7302-40M

- Data can be transmitted to Excel, Word, txt and other files(press transmit button, which is recognized by the computer as keyboard input data and press enter, such as 12.34 \( \nabla \)
- Suitable for any softwares which can receive keyboard signal
   Optional accessory: foot switch (code: 7304-2), hub (code: 7302-HUB, 7302-HUB7) extension cables (code: 7302-ADD5, 7302-ADD10)

To be continued



#### Continued from previous page

#### SEPARATED BUTTON

SEPARATEI Code	Description	Plug to product	Plug to computer	Applicable products
7302-21	cable for digital calipers (length 3m)	transmit button		digital calipers and digital depth gages
7302-22	cable for large digital calipers (length 2.5m)	-103		large digital calipers (range ≤1000mm) and digital height gages
7302-30	cable for digital micrometers (length 2.5m)			digital micrometers
7302 <b>-</b> 40M	cable for digital indicators (length 2.5m)			digital indicators
7302-50M	cable for digital gages (length 2.5m)	-111		digital thickness gages and digital internal/external caliper gages
7302-60	cable for high precision digital indicators (length 2.5m)			2140-6 and 2133 series high precision digital indicators 3350 series high precision digital snap gages



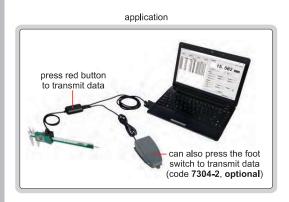


#### **INTEGRATED BUTTON**

Code	Description	Plug to product	Plug to computer	Applicable products
7302-SPC10	cable for digital micrometers (length 1.8m)			digital micrometers (code with suffix Q, such as 3101-25ACQ)



## DATA OUTPUT CABLES (TEXT FORMAT, VIRTUAL COM PORT)



■ Optional accessory: foot switch (code: **7304-2**), hub (code: **7302-HUB**, **7302-HUB7**)



7305-40M



7305-R40M

#### Single transmission (can be switched to continuous transmission)

Code	Description	Plug to product	Plug to computer	Applicable products
7305-21	cable for – digital calipers			1558 ISY9
7305-R21	(length 3m)	transmit button		digital calipers and digital depth gages
7305-22	cable for large – digital calipers			2638
7305 <b>-</b> R22	(length 2.5m)			large digital calipers (range ≤1000mm) and digital height gages
7305-30	cable for digital – micrometers	<b>#</b>		Proof The Control of
7305-R30	(length 2.5m)			digital micrometers
7305 <b>-</b> 50M	cable for digital gages			
7305 <b>-</b> R50M	(length 2.5m)			digital thickness gages and digital internal/external caliper gages

To be continued



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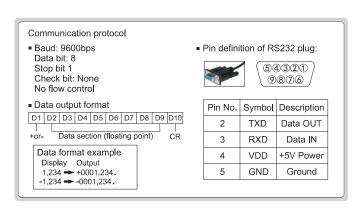
#### Continuous transmission (can be switched to single transmission)

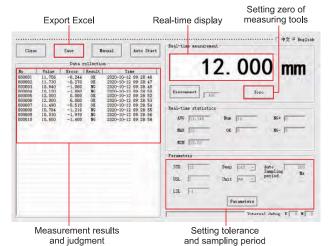
Code	Description	Plug to product	Plug to computer	Applicable products
7305-40M *	cable for digital indicators			0005° 355
7305-R40M *	(length 2.5m)			digital indicators

<sup>\*</sup>Supplied with software

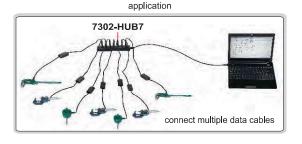
#### Software (included in 7305-40M and 7305-R40M)

- Real-time display
- Tolerance setting, automatic judgment, out-of-tolerance alarm
   Real time statistics: max, min, average, Go/No-Go number
- Data transmission: single transmission with button on cable/foot switch, single transmission operated on computer, continuous transmission operated on computer
- Can save results as EXCEL





#### **HUBS**





7302-HUB

7302-HUB7

■ Suitable for USB plug data cable

Code	Description	Applicable products
7302-HUB	4-channel hub (length 0.3m, USB computer plug)	7302 series data cables
7302-HUB7	7-channel hub (length 1m, USB computer plug)	7305 series data cables (USB plug)

#### **FOOT SWITCH**

■ For data transmission

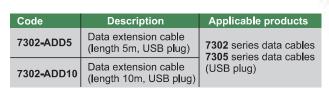


Code	Description	Applicable products
7304-2	data transmission foot switch with cable (length 2m)	7302 series data cables 7305 series data cables



application

### **EXTENSION CABLES**





7302-ADD5

#### ADAPTERS FOR DATA OUTPUT CABLE









7323-OTGC4

- 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)

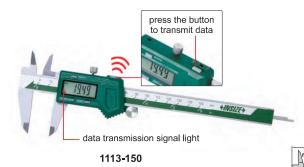


Code	Туре	Applicable interface of mobile phones or tablet computers	Plug type	Applicable products
7323 <b>-</b> OTGM	One to one	Micro-USB	•	
7323 <b>-</b> OTGC	One to one	Type-C		7315-3 2134-R1
7323 <b>-</b> OTGC4	One to four	Type-C		7302 series data cables



### **WIRELESS DIGITAL CALIPERS**





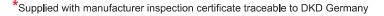


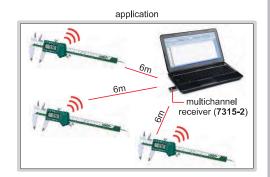
thumb roller

Unit: mm

- Built-in wireless data transmission module, Zigbee signal
- Transmission distance is 6 meter
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch, data transmission
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Optional accessory: receiver (code 7315-2, 7315-3)

							(mm)
Code	Range	Accuracy	Thumb roller	L	а	b	d
1113-150*	0-150mm/0-6"	±0.03mm	with	236	21	16	40
1113-200*	0-200mm/0-8"	±0.03mm	with	286	24	19	50
1113-300*	0-300mm/0-12"	±0.03mm	with	400	25	20.5	60
1113-150W *	0-150mm/0-6"	±0.03mm	without	236	21	16	40
1113-200W *	0-200mm/0-8"	±0.03mm	without	286	24	19	50
1113-300W *	0-300mm/0-12"	±0.03mm	without	400	25	20.5	60









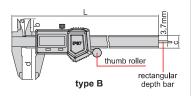


#### **IP67 WATERPROOF DIGITAL CALIPERS**







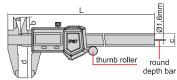




- Resolution: 0.01mm/0.0005"
- Button function: zero, on/off, mm/inch, ABS/REL, hold
- Battery CR2032Meet DIN862
- Made of stainless steel



1118-150R



type R

Code	Range	Accuracy	Thumb roller	Type	L	а	b	С	d
1118-150B*	0-150mm/0-6"	±0.03mm	with	В	236mm	21mm	16mm	16mm	40mm
1118-200B*	0-200mm/0-8"	±0.03mm	with	В	286mm	24mm	19mm	16mm	50mm
1118-300B*	0-300mm/0-12"	±0.03mm	with	В	400mm	25mm	20.5mm	16mm	60mm
1118-150BW *	0-150mm/0-6"	±0.03mm	without	В	236mm	21mm	16mm	16mm	40mm
1118-200BW *	0-200mm/0-8"	±0.03mm	without	В	286mm	24mm	19mm	16mm	50mm
1118-300BW *	0-300mm/0-12"	±0.03mm	without	В	400mm	25mm	20.5mm	16mm	60mm
1118-150R*	0-150mm/0-6"	±0.03mm	with	R	236mm	21mm	16mm	16mm	40mm

 $<sup>{}^{</sup>ullet}$ Supplied with manufacturer inspection certificate traceable to DKD Germany