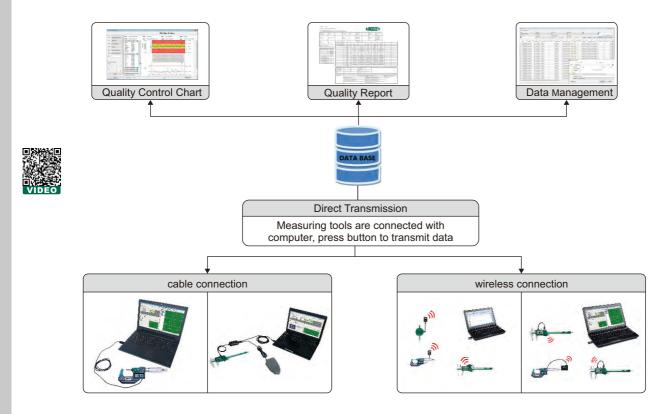


## MEASURING DATA MANAGEMENT SOFTWARE CODE 7316-10



#### **Direct Transmission**

■ Transmit data through cables or wireless systems



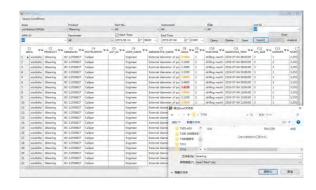
#### **Quality Control Chart**

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



#### **Data Management**

■ Measuring data are stored in database



#### **Quality Report**

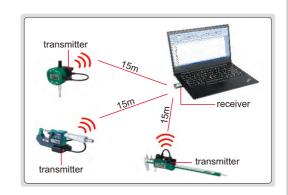
Generate different EXCEL report formats according to requirements





#### **WIRELESS DATA TRANSMISSION SYSTEM**

- Through wireless transmission, the measurement data can be transmitted to computers or mobile phones
- For windows and android systems
- Wireless zigbee protocol, conforming to IEEE802, 2.4GHz band
   Transmission distance is 15 meter (Under the condition of no obstruction and no electromagnetic interference. The transmission distance of built-in wireless measuring tools can be found in their respective introduction.)



#### **Transmitter**

- Connecting to digital measuring tools such as calipers, micrometers and indicators
- Press the transmit button to send data
- CR2032 battery





7315-21

7315-22

Code	Description	Plug to product	Remark
7315-21	transmitter for digital calipers	transmit button	signal light transmit button transmit button digital calipers and digital depth gages
7315-22	transmitter for large digital calipers	-111	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	-101	signal light transmit button digital indicators, digital thickness gages and digital internal/external caliper gages
7315-60	transmitter for high precision digital indicators		2140-6 and 2133 series high precision digital indicators signal light transmit button

To be continued



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#### Receiver (keyboard signal)

- For computers and mobile phones with windows and android systems
- Recognized as HID keyboard device, press transmit button of transmitter, which is recognized by computers or mobile phones as keyboard input data and press enter, such as 12.34 ∠.
- No need to install drivers and softwares
- Data can be transmitted to excel, word, txt etc.
- Suitable for any softwares which can receive keyboard signal

Code	Product	Description	Remark
7315-3	USB port	single channel receiver	connected with 1 transmitter only
7315-6	USB port		
7315-7	Type-C port	multichannel receiver	connected with 6 transmitter, each channel has a transmitter status indicator
7315-8	Micro USB port		

#### Receiver (text format, virtual com port)

- Suitable for computers with windows system
- Text format virtual com port, converted to keyboard format with supplied software
- Supplied with EXCEL directional input software (please refer to the next page for details)
- Measurement data can be transmitted to excel, word, txt etc. and any software which receives keyboard signal

Code	Product	Description	Remark
7315-2	antenna— USB port	multichannel receiver	connected with maximum 16 transmitters, each of them has unique identification code

To be continued



#### **EXCEL** directional input software

- Included in 7315-2 receiver
- The measurement data of multiple measuring tools can be transmitted to the designated area of excel, which facilitates data management and improves efficiency

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

workpieces

workpieces

area is indicated in green

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	A	В	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
4	1	23.010	21.008	49.98	28.01
5	2	23.010	21.000	49.98	27.98
6	3	22.999	21.000	50	28
7	4	23.007	20.998	50	28
8	5	23.000	20.985	50.01	28.01
9	6	23.008	Channel 1	Channel 2	Channel 3

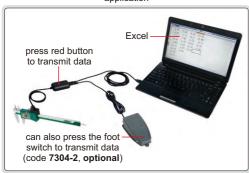
4

area is indicated in green



#### **DATA OUTPUT CABLES (KEYBOARD FORMAT)**







7302-40M

- Recognized as HID keyboard device by computer, no need to install drivers and softwares
- 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∠)
- Suitable for any softwares which can receive keyboard signal
- Optional accessory: foot switch (code: 7304-2), hub (code: 7324-HUB4, 7324-HUB7) extension cables (code: 7325-ADD5, 7325-ADD10)



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)	-111		large digital calipers (range≤1000mm) and digital height gages
7302-30	cable for digital micrometers (length 2.5m)			digital micrometers
7302-40M	cable for digital indicators (length 2.5m)	-11-		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



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







7305-40M



Optional accessory: foot switch (code: 7304-2), hub (code: 7324-HUB4, 7324-HUB7)

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

Code	Description	Plug to product	Plug to computer	Applicable products
7305-21	cable for digital calipers			1559 A 1559
7305-R21	(length 3m)	transmit button		digital calipers and digital depth gages
7305-22	cable for large - digital calipers	-111		8660
7305-R22	(length 2.5m)			large digital calipers (range≤1000mm) and digital height gages
7305-30	cable for digital micrometers	##		IP65
7305-R30	(length 2.5m)	- CHIEF		digital micrometers
7305-50M	cable for - digital gages			
7305-R50M	(length 2.5m)			digital thickness gages and digital internal/external caliper gages

To be continued

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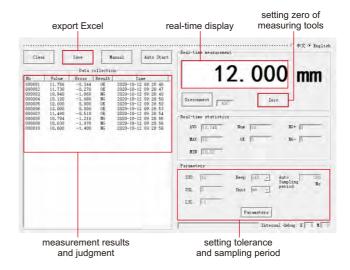
#### Continuous transmission (can be switched to single transmission)

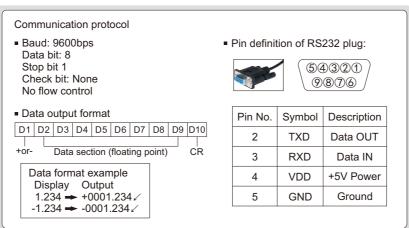
Code	Description	Plug to product	Plug to computer	Applicable products
7305-40M*	cable for digital indicators			355
7305-R40M*	(length 2.5m)			digital indicators

<sup>\*</sup>Long press transmission button or foot switch to zero the digital indicators

#### 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





#### **EXTENSION CABLES**





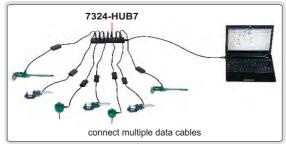
Code	Description	Applicable products
7325-ADD5	data extension cable (length 5m, USB plug)	7302 series data cables
7325-ADD10	data extension cable (length 10m, USB plug)	7305 series data cables (USB plug)

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



#### **HUBS**

application





7324-HUB4



7324-HUB7

■ Suitable for USB plug data cable

Code	Description	Applicable products
7324-HUB4	4-channel hub (length 0.2m, USB computer plug)	7302 series data cables
7324-HUB7	7-channel hub (length 1m, USB computer plug)	7305 series data cables (USB plug)

#### **FOOT SWITCH**



■ For data transmission

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

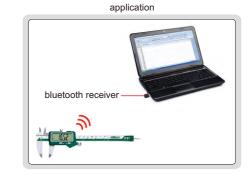


#### **BLUETOOTH RECEIVER**



7322-01

- Connect to computer USB interface
- Transmission distance is 10 meter



Code	Applicable products						
7322-01	552	<b>1127</b> series built-in bluetooth digital calipers	300	<b>1542</b> series built-in bluetooth digital depth gages			



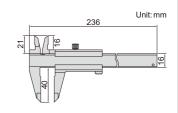




#### **VERNIER CALIPERS (ANTI MAGNETIC)**



1224-150A



#### Suitable for magnetic parts

Made of pure copper

Code	Range	Graduation	Accuracy
1224-150A	0-150mm	0.02mm	±0.05mm
1224-1501A	0-150mm	0.05mm	±0.05mm

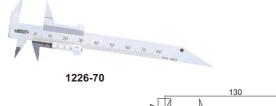
#### **LEFT HAND VERNIER CALIPERS**

- Designed for left handed users
- Made of stainless steel
- Satin chrome plated reading surface

Code	Range	Graduation	Accuracy
1239-150	0-150mm/0-6"	0.05mm/1/128"	±0.05mm
1239-1503	0-150mm	0.05mm	±0.05mm
1239-1502	0-150mm/0-6"	0.02mm/0.001"	±0.03mm
1239-1501	0-150mm	0.02mm	±0.03mm



#### **TEETH VERNIER CALIPER**



 Code
 Range
 Graduation
 Accuracy

 1226-70
 0-70mm
 0.1mm
 ±0.1mm

130 Unit: mm

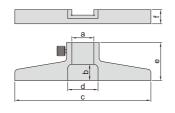


#### **DEPTH BASE ATTACHMENTS**



Used for teeth

■ Made of stainless steel



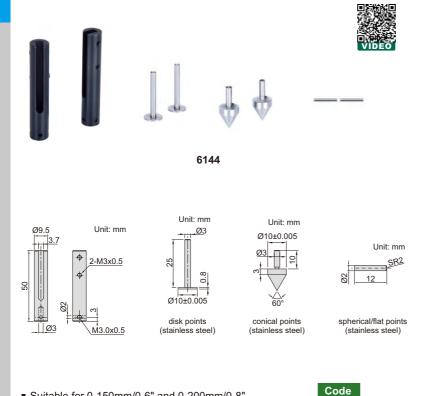
- 6140
- 6140-16B

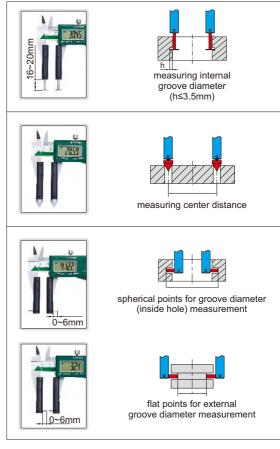
- To increase the stability of depth measurement
- Suitable for digital calipers and dial calipers
- Made of stainless steel

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



#### **ACCESSORY SET FOR DIGITAL CALIPERS CODE 6144**





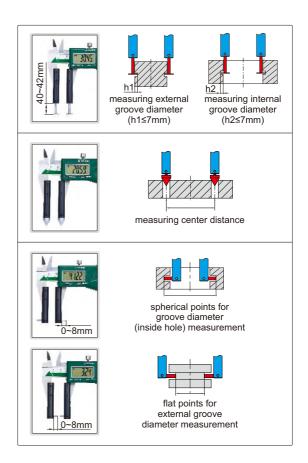
#### **ACCESSORY SET FOR LARGE DIGITAL CALIPERS CODE 6145-500**

6144

■ Suitable for 0-150mm/0-6" and 0-200mm/0-8"

digital calipers (thickness of lower jaws≤3.7mm)





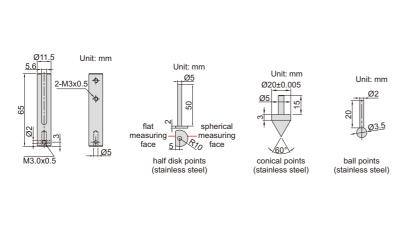




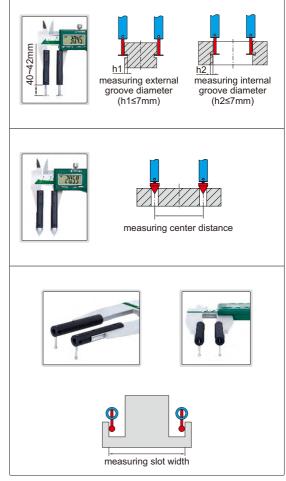
#### **ACCESSORY SET FOR LARGE DIGITAL CALIPERS (WITH SIDE POINTS) CODE 6146-500B**







■ Suitable for 0-500mm/0-20" and 0-600mm/0-24" digital calipers (thickness of lower jaws≤5.6mm) 6146-500B





#### **CALIPER END GRINDING MACHINE CODE 6309**

### ■ Used for grinding the depth measuring surface of the end of calipers

#### **SPECIFICATION**





