

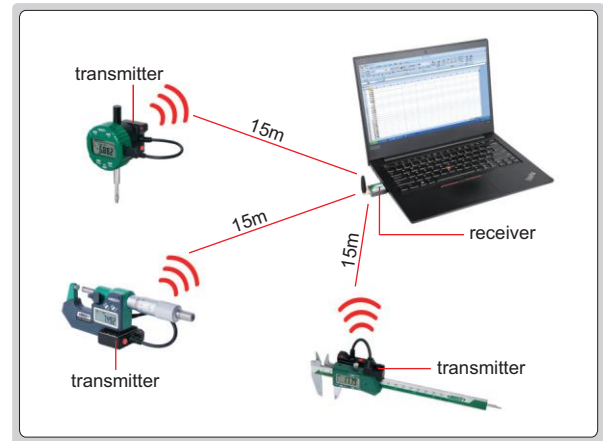
## WIRELESS DATA TRANSMISSION SYSTEM (ZIGBEE)









- Through wireless transmission, the readings of measuring tools can be transmitted to computers or mobile phone
- Wireless zigbee protocol, conforming to IEEE802, 2.4GHz band
- Transmission distance is 15 meter (under the condition of no obstruction and no electromagnetic interference)

### Transmitter







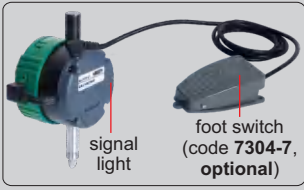
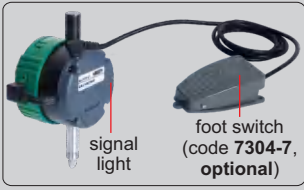

- Connecting to digital measuring tools such as calipers, micrometers and indicators
- CR2032 battery



Code	Description	Transmitter	Connecting with measuring tool	Transmit data
7315-25	transmitter for digital calipers			<ul style="list-style-type: none"> <li>Press the button of the transmitter</li> <li>Data is transmitted once, the signal light of the transmitter flashes once</li> </ul>
7315-22	transmitter for large digital calipers			<ul style="list-style-type: none"> <li>Press the button of the transmitter</li> <li>Data is transmitted once, the signal light of the transmitter flashes once</li> </ul>
7315-30	transmitter for digital micrometers		 <p>for 3102, 3128, 3565 series digital micrometers</p>	<ul style="list-style-type: none"> <li>Press the "data" button of digital micrometer, can also press the button of the transmitter</li> <li>Data is transmitted once, the signal light of the transmitter flashes once, at the same time, the signal light on the digital micrometer flashes once</li> </ul>

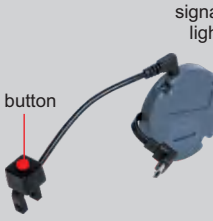



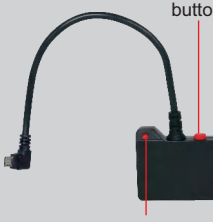

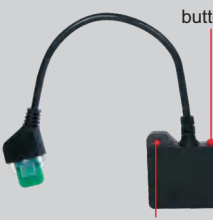





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Code	Description	Transmitter	Connecting with measuring tool	Transmit data
7315-31	transmitter for digital micrometers		 <p>“data” button</p> <p>signal light</p> <p>back</p>	<ul style="list-style-type: none"> <li>Press the “data” button of digital micrometer</li> <li>Data is transmitted once, the signal light on the digital micrometer flashes once</li> </ul>
7315-50M	transmitter for digital indicators	 <p>button</p> <p>signal light</p>	 <p>signal light</p> <p>button</p>	<ul style="list-style-type: none"> <li>Press the button of the transmitter</li> <li>Data is transmitted once, the signal light of the transmitter flashes once</li> </ul>
7315-51	transmitter for digital indicators	 <p>signal light</p> <p>button</p>	 <p>“DATA” button</p> <p>signal light</p> <p>button</p> <p>for 2108, 2138, 2139 series digital indicators</p>  <p>signal light</p> <p>foot switch (code 7304-7, optional)</p> <p>back</p>	<ul style="list-style-type: none"> <li>Press the “DATA” button of digital indicator, can also press the button of the transmitter</li> <li>Transmitter button can be fixed on request</li> <li>Data is transmitted once, the signal light on digital indicator flashes once</li> </ul>
			 <p>button</p> <p>for other digital indicators</p>  <p>signal light</p> <p>foot switch (code 7304-7, optional)</p> <p>back</p>	<ul style="list-style-type: none"> <li>Press the button of the transmitter</li> <li>Transmitter button can be fixed on request</li> <li>Data is transmitted once, the signal light on digital indicator flashes once</li> </ul>


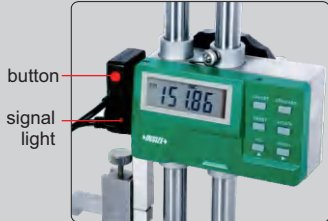




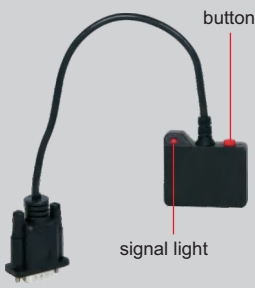
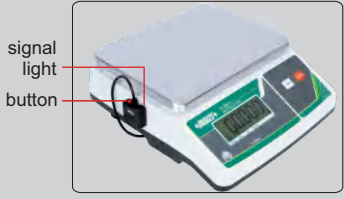

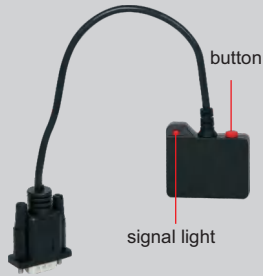
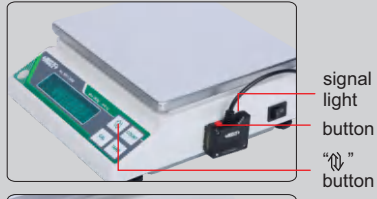

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Code	Description	Transmitter	Connecting with measuring tool	Transmit data
7315-51B	transmitter for bore gauges			<ul style="list-style-type: none"> <li>Press the "DATA" button of digital indicator, can also press the button of the transmitter</li> <li>Data is transmitted once, the signal light on digital indicator flashes once</li> </ul>
7315-2183	transmitter for digital indicators			<ul style="list-style-type: none"> <li>Press the button of the transmitter</li> <li>Data is transmitted once, the signal light of the transmitter flashes once</li> </ul>
7315-60	transmitter for high precision digital indicators			<ul style="list-style-type: none"> <li>Press the button of the transmitter</li> <li>Data is transmitted once, the signal light of the transmitter flashes once</li> </ul>
7315-80	transmitter for digital calipers/ micrometers			<ul style="list-style-type: none"> <li>Press the "SET" button of the calipers/micrometers, can also press the button of the transmitter</li> <li>Data is transmitted once, the signal light of the transmitter flashes once</li> </ul>
7315-3350	transmitter for digital micrometers			<ul style="list-style-type: none"> <li>Press the button of the transmitter</li> <li>Data is transmitted once, the signal light of the transmitter flashes once</li> </ul>
7315-1150	transmitter for digital height gauges			<ul style="list-style-type: none"> <li>Press the button of the transmitter</li> <li>Data is transmitted once, the signal light of the transmitter flashes once</li> </ul>

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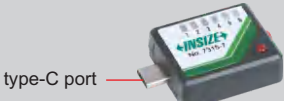


Code	Description	Transmitter	Connecting with measuring tool	Transmit data
7315-1151	transmitter for digital height gauges			<ul style="list-style-type: none"> <li>Press the button of the transmitter</li> <li>Data is transmitted once, the signal light of the transmitter flashes once</li> </ul>
7315-2172	transmitter for digital protractors			<ul style="list-style-type: none"> <li>Press the button of the transmitter</li> <li>Data is transmitted once, the signal light of the transmitter flashes once</li> </ul>
7315-2771	transmitter for digital protractors			<ul style="list-style-type: none"> <li>Press the button of the transmitter</li> <li>Data is transmitted once, the signal light of the transmitter flashes once</li> </ul>
7315-8001	transmitter for electronic balances		  for 8001-6D, 8001-15D, 8001-30D series weighing scales and 8501 series platform scales	<ul style="list-style-type: none"> <li>Press the button of the transmitter</li> <li>Data is transmitted once, the signal light of the transmitter flashes once</li> </ul>
7315-8301	transmitter for electronic balances		 	<ul style="list-style-type: none"> <li>Press the “<math>\mu</math>” button of the electronic balances, can also press the button of the transmitter</li> <li>Data is transmitted once, the signal light of the transmitter flashes once</li> </ul>

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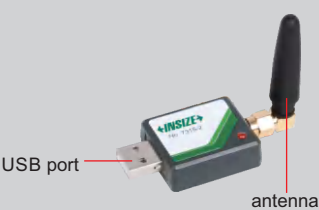
## Receiver (keyboard signal)

- For computers and mobile phones
- Recognized as HID keyboard device, the transmitted data is recognized by computers or mobile phones as keyboard input data and press enter key, such as 12.34℃.
- No need to install drivers and softwares
- Data can be transmitted to excel, word, txt etc.
- 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		multichannel receiver	connected with 6 transmitters, each channel has status indicator
7315-7	 type-C port		
7315-8	 micro USB port		
7315-9	 lightning port		

## Receiver (text format, virtual com port)

- For computers with windows system
- Text format virtual com port, converted to keyboard format with supplied software
- Supplied with Excel directional input software
- Measurement data can be transmitted to excel, word, txt etc. and any software which receives keyboard signal

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


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## Receiver (485 communication)

- Modbus-RTU protocols , baud rate 9600
- Can be connected to a PC or PLC
- The communication address is configurable

Code	Product	Description	Remark
7315-485		multichannel receiver	connected with 6 transmitters, each channel has status indicator

## Excel directional input software

- Supplied with 7315-2 receiver
- The readings of 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 gauge at D4-D9, the readings of height gauge are displayed at D4, D5... D9.

	A	B	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

the next data display area is indicated in green

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

Set the display area of micrometer at B4-B9, 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, E5... D9.  
Set the display area of depth gauge at E4-E9, the readings of depth gauge are displayed at E4, E5... E9.

	A	B	C	D	E
1	Project	External diameter1	External diameter2	Length	Depth
2	Dimension and Tolerance	Φ23+0.01/-0.02	Φ21+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

serial of workpieces

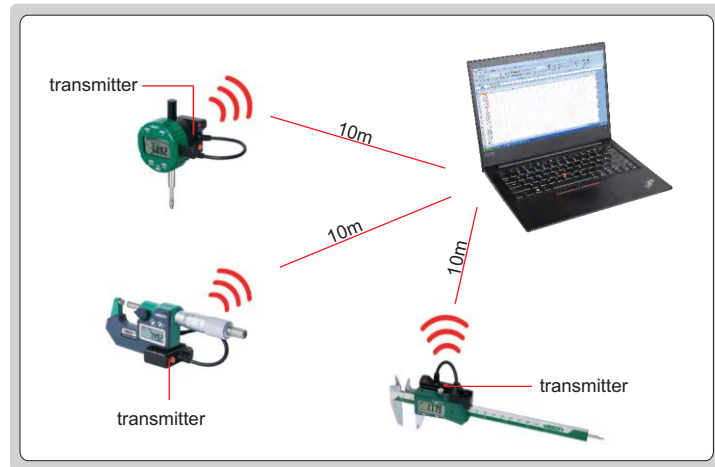
the next data display area is indicated in green

## BLUETOOTH TRANSMITTERS

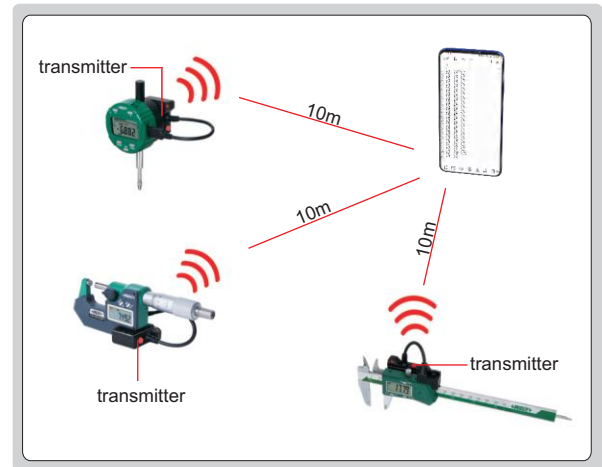





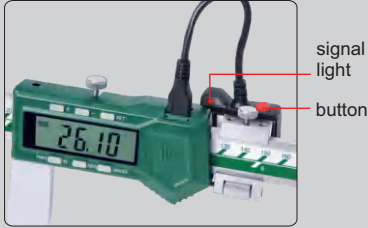


- Through bluetooth transmission, the readings of measuring tools can be transmitted to computers or mobile phones
- 2.4GHz band
- Recognized as HID keyboard device, the transmitted data is recognized by computers or mobile phones as keyboard input data and press enter key, such as 12.34 ↵
- No need to install drivers and softwares, data can be transmitted to excel, word, txt etc.
- For any softwares which can receive keyboard signal
- Transmission distance is 10 meter (under the condition of no obstruction and no electromagnetic interference)
- Connecting to digital measuring tools such as calipers, micrometers and indicators
- CR2032 battery

connecting with computer










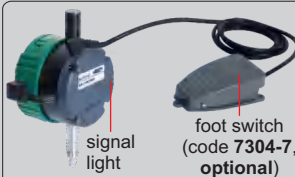


connecting with mobile phone



Code	Description	Transmitter	Connecting with measuring tool	Transmit data
7214-25	transmitter for digital calipers			<ul style="list-style-type: none"> <li>■ Press the button of the transmitter</li> <li>■ Data is transmitted once, the signal light of the transmitter flashes once</li> </ul>
7214-22	transmitter for large digital calipers			<ul style="list-style-type: none"> <li>■ Press the button of the transmitter</li> <li>■ Data is transmitted once, the signal light of the transmitter flashes once</li> </ul>
7214-30	transmitter for digital micrometers		 for 3102, 3128, 3565 series digital micrometers	<ul style="list-style-type: none"> <li>■ Press the "data" button of the digital micrometer, can also press the button of the transmitter</li> <li>■ Data is transmitted once, the signal light of the transmitter flashes once, at the same time, the signal light on the digital micrometer flashes once</li> </ul>

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Code	Description	Transmitter	Connecting with measuring tool	Transmit data
7214-31	transmitter for digital micrometers		 <p>IP65</p> <p>"data" button</p> <p>signal light</p>  <p>back</p>	<ul style="list-style-type: none"> <li>Press the "data" button of digital micrometer</li> <li>Data is transmitted once, the signal light on the digital micrometer flashes once</li> </ul>
7214-50M	transmitter for digital indicators	 <p>button</p> <p>signal light</p>	 <p>signal light</p> <p>button</p> <p>for digital indicators without data button</p>	<ul style="list-style-type: none"> <li>Press the button of the transmitter</li> <li>Data is transmitted once, the signal light of the transmitter flashes once</li> </ul>
7214-51	transmitter for digital indicators	 <p>signal light</p> <p>button</p>	 <p>"DATA" button</p> <p>signal light</p> <p>button</p> <p>for digital indicators with data button</p>  <p>signal light</p> <p>foot switch (code 7304-7, optional)</p> <p>back</p>	<ul style="list-style-type: none"> <li>Press the "DATA" button of digital indicator, can also press the button of the transmitter</li> <li>Transmitter button can be fixed on request</li> <li>Data is transmitted once, the signal light on digital indicator flashes once</li> </ul>
7214-51B	transmitter for bore gauges	 <p>signal light</p> <p>button</p>	 <p>"DATA" button</p> <p>signal light</p> <p>button</p> <p>for bore gauges with data button</p>	<ul style="list-style-type: none"> <li>Press the "DATA" button of digital indicator, can also press the button of the transmitter</li> <li>Data is transmitted once, the signal light on digital indicator flashes once</li> </ul>



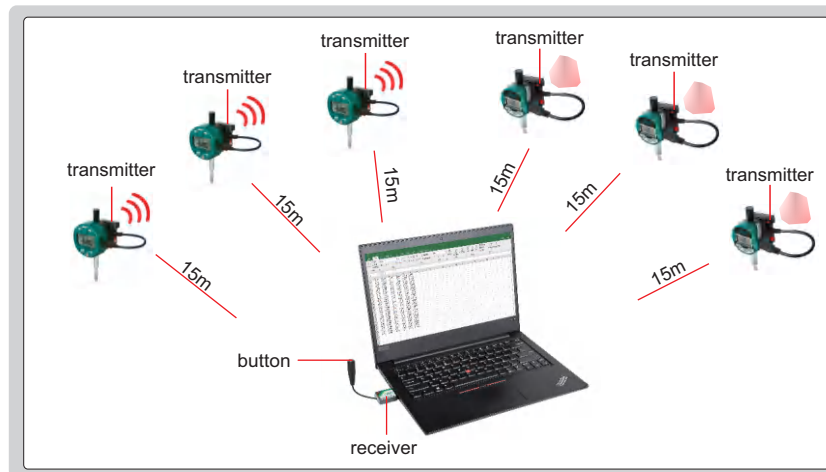
## WIRELESS DATA TRANSMISSION SYSTEM OF DIGITAL INDICATORS (REMOTE CONTROL)



- The readings of digital indicators can be transmitted to computers or mobile phones
- Data acquisition can be remotely controlled through the receiver
- Wireless zigbee protocol, conforming to IEEE802. 2.4GHz band
- Transmission distance is 15 meter (under the condition of no obstruction and no electromagnetic interference)

transmission method: the button on receiver is pressed once, the readings of all digital indicators are transmitted

	channel 1	channel 2	channel 3	channel 4	channel 5	channel 6
	A	B	C	D	E	F
1	24.35	0.4045	57.72	1.949	0.4075	0.03568
2	24.45	0.5045	57.82	2.049	0.5075	0.13568
3	26.35	0.4045	57.72	1.949	0.4075	0.00078
4	27.35	0.4045	57.72	1.7575	0.4075	0.0762
5	28.35	0.4045	57.72	1.7575	0.4075	0.0762
6	29.35	0.4045	57.72	1.7575	0.4075	0.07618
7	30.35	0.4045	57.72	1.7575	0.4075	0.55334
8	31.35	0.4045	57.72	1.7575	0.4075	0.61198
9	24.35	0.4045	57.72	1.7575	0.4075	0.6172



### Transmitter

- Suitable for digital indicators
- CR2032 battery
- 80 hours of operation on a single battery in measurement mode

Code	Transmitter	Connecting with digital indicators	Transmit data
7213-56			<ul style="list-style-type: none"> <li>■ Press and hold the button to enter the measurement mode</li> <li>■ Press the receiver button in measurement mode to acquire data</li> </ul>

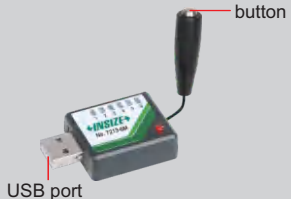
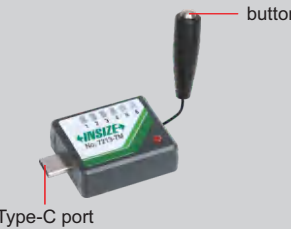


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## Receiver (keyboard signal)

- For computers and mobile phones
- Recognized as HID keyboard device, the transmitted data is recognized by computers or mobile phones as keyboard input data and press enter key, 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

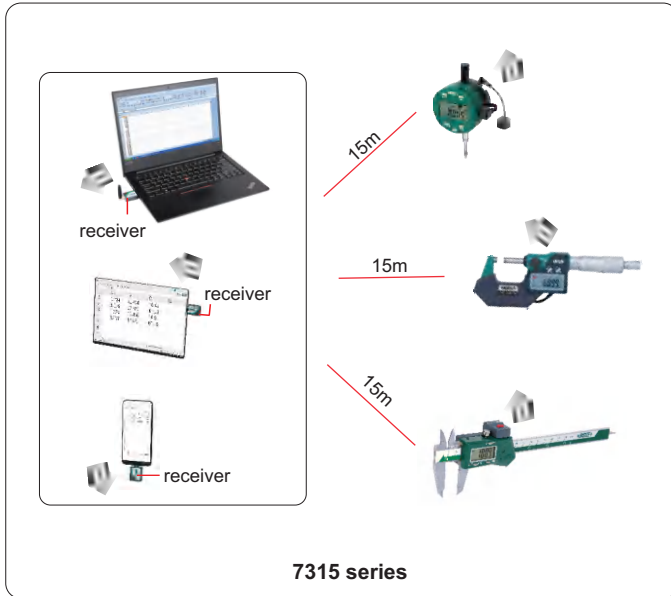
Code	Product	Description	Remark	Transmit data
7213-6M		multichannel receiver	connected with 6 transmitter, each channel has status indicator	<ul style="list-style-type: none"> <li>■ Press the button of the receiver</li> <li>■ Data is transmitted once, the signal light of the receiver flashes once</li> </ul>
7213-7M				
7213-8M				
7213-9M				

hand switch, code **7213-SW** (included), length 2m

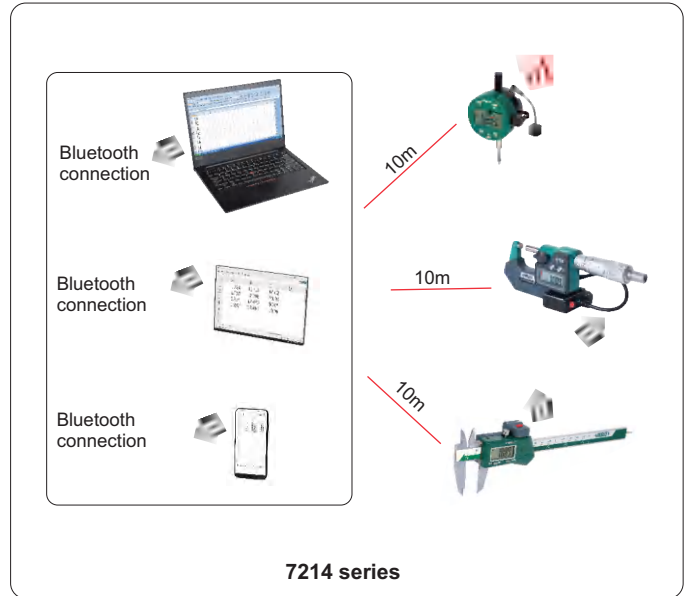


## COMPARISON TABLE

### ZIGBEE Wireless Transmission



### Bluetooth Wireless Transmission



Code	7315 series	7214 series
Function	wireless transmission of measurement data from measuring tools to computers or mobile phones	
Operation system	Windows, Android or iOS	
Wireless module	Zigbee	Bluetooth 5.0
Receiver	need receiver (one receiver can be connected to 16 transmitters)	receiver is not needed, Bluetooth connection (one computer/mobile phone can be connected to 7 transmitters)
Communication type	keyboard format (suitable for any software or APP which can receive keyboard input values)	keyboard format (suitable for any software or APP which can receive keyboard input values)
	text format, virtual com port (a. connect to software which recognizes different channels and IDs according to serial communication protocols and defines data entry area for different measurement tools; b. can also use the software (included in the <b>7315-2</b> receiver) to transmit measurement data from multiple measuring tools to the designated area in Excel for easy data management)	
Acquisition method	press-button single transmission	
Transmission performance	transmission performance with low power consumption, high speed, accurate and stable data, and strong anti-interference performance	transmission performance depends on the Bluetooth performance of computers/mobile phones
Transmission distance	15m	10m
Connection memory	matching operation is not needed after the computer/mobile phone is turned off and on again	need to press the button to match after the computer/mobile phone is turned off and on again