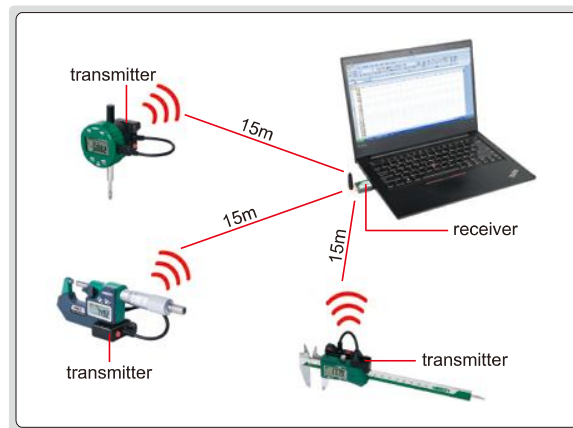# WIRELESS DATA TRANSMISSION SYSTEM (ZIGBEE)
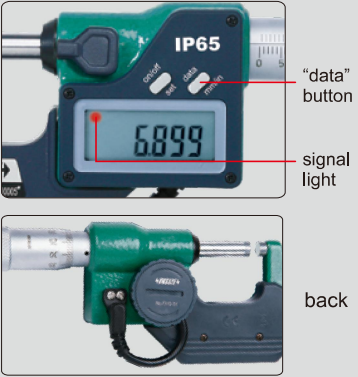

VIDEO
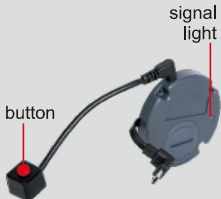
- Through wireless transmission, the readings of measuring tools can be transmitted to computers or mobile phone
- Wireless zigbee protocol, conforming to IEEE802, 2.4GHz band
- Transmission distance is 15 meter (under the condition of no obstruction and no electromagnetic interference)
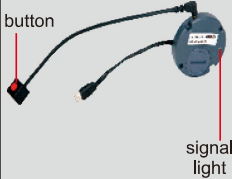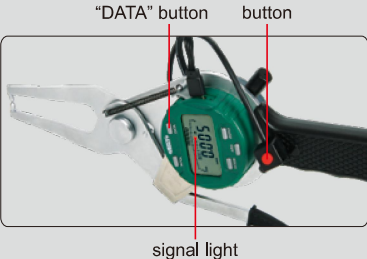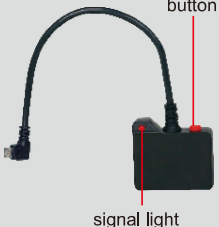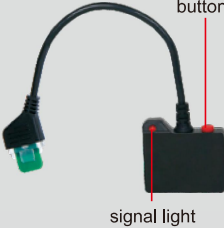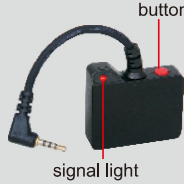
Transmitter
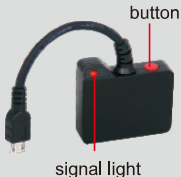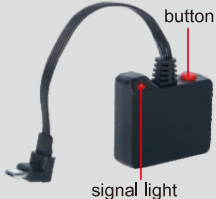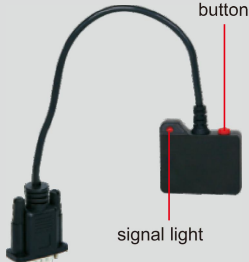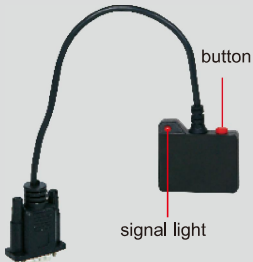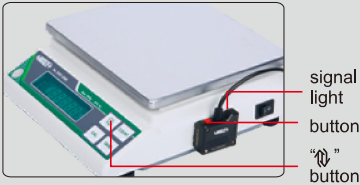
- Connecting to digital measuring tools such as calipers, micrometers and indicators
- CR2032 battery

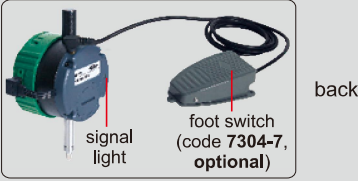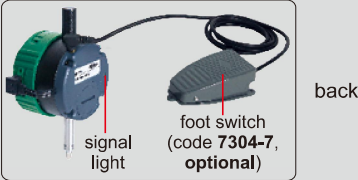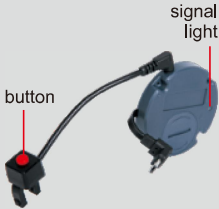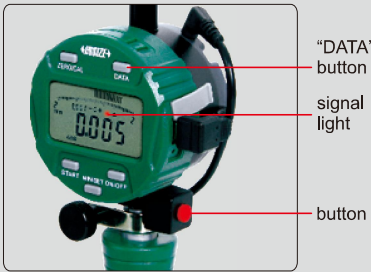| Code	Description	Transmitter	Connecting with measuring tool	Transmit data
7315-25	transmitter for digital calipers	button, signal light	signal light, button	■ Press the button of the transmitter ■ Data is transmitted once, the signal light of the transmitter flashes once
7315-22	transmitter for large digital calipers	button, signal light	signal light, button	■ Press the button of the transmitter ■ Data is transmitted once, the signal light of the transmitter flashes once
7315-30	transmitter for digital micrometers	button, signal light	signal light, "data" button, button, signal light for **3102**, **3128**, **3565** series digital micrometers	■ Press the "data" button of digital micrometer, can also press the button of the transmitter ■ 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

Code	Description	Transmitter	Connecting with measuring tool	Transmit data
7315-31	transmitter for digital micrometers		"data" button / signal light / back	■ Press the "data" button of digital micrometer ■ Data is transmitted once, the signal light on the digital micrometer flashes once
7315-50M	transmitter for digital indicators	button / signal light	signal light / button	■ Press the button of the transmitter ■ Data is transmitted once, the signal light of the transmitter flashes once
7315-51	transmitter for digital indicators	signal light / button	"DATA" button / signal light / button for **2108, 2138, 2139** series digital indicators signal light / foot switch (code **7304-7**, **optional**) / back	■ Press the "DATA" button of digital indicator, can also press the button of the transmitter ■ Transmitter button can be fixed on request ■ Data is transmitted once, the signal light on digital indicator flashes once
			button for other digital indicators signal light / foot switch (code **7304-7**, **optional**) / back	■ Press the button of the transmitter ■ Transmitter button can be fixed on request ■ Data is transmitted once, the signal light on digital indicator flashes once

Code	Description	Transmitter	Connecting with measuring tool	Transmit data
7315-51B	transmitter for bore gauges	signal light, button	"DATA" button, signal light, button	■ Press the "DATA" button of digital indicator, can also press the button of the transmitter ■ Data is transmitted once, the signal light on digital indicator flashes once
7315-55	transmitter for digital gauges	button, signal light	"DATA" button, button, signal light	■ Press the "DATA" button of digital gauge, can also press the button of the transmitter ■ Transmitter button can be fixed on request ■ Data is transmitted once, the signal light on digital gauge flashes once
7315-60	transmitter for high precision digital indicators	button, signal light	signal light, button	■ Press the button of the transmitter ■ Data is transmitted once, the signal light of the transmitter flashes once
7315-80	transmitter for digital calipers/ micrometers	button, signal light	"SET" button, button, signal light	■ Press the "SET" button of the calipers/micrometers, can also press the button of the transmitter ■ Data is transmitted once, the signal light of the transmitter flashes once
7315-3350	transmitter for digital micrometers	button, signal light	signal light, button	■ Press the button of the transmitter ■ Data is transmitted once, the signal light of the transmitter flashes once
7315-1150	transmitter for digital height gauges	button, signal light	signal light, button	■ Press the button of the transmitter ■ Data is transmitted once, the signal light of the transmitter flashes once

Continued from previous page

Code	Description	Transmitter	Connecting with measuring tool	Transmit data
7315-1151	transmitter for digital height gauges	button, signal light	button, signal light	▪ Press the button of the transmitter ▪ Data is transmitted once, the signal light of the transmitter flashes once
7315-2172	transmitter for digital protractors	button, signal light	signal light, button	▪ Press the button of the transmitter ▪ Data is transmitted once, the signal light of the transmitter flashes once
7315-2771	transmitter for digital protractors	button, signal light	signal light, button	▪ Press the button of the transmitter ▪ Data is transmitted once, the signal light of the transmitter flashes once
7315-8001	transmitter for electronic balances	button, signal light	signal light, button, back for **8001-6D**, **8001-15D**, **8001-30D** series weighing scales and **8501** series platform scales	▪ Press the button of the transmitter ▪ Data is transmitted once, the signal light of the transmitter flashes once
7315-8301	transmitter for electronic balances	button, signal light	signal light, button, "⚖" button, back, CE	▪ Press the "⚖" button of the electronic balances, can also press the button of the transmitter ▪ Data is transmitted once, the signal light of the transmitter flashes once

To be continued

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	USB port	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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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-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 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

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	signal light	multichannel receiver	connected with 6 transmitters, each channel has status indicator