Data Management Softwares
Page 2-4

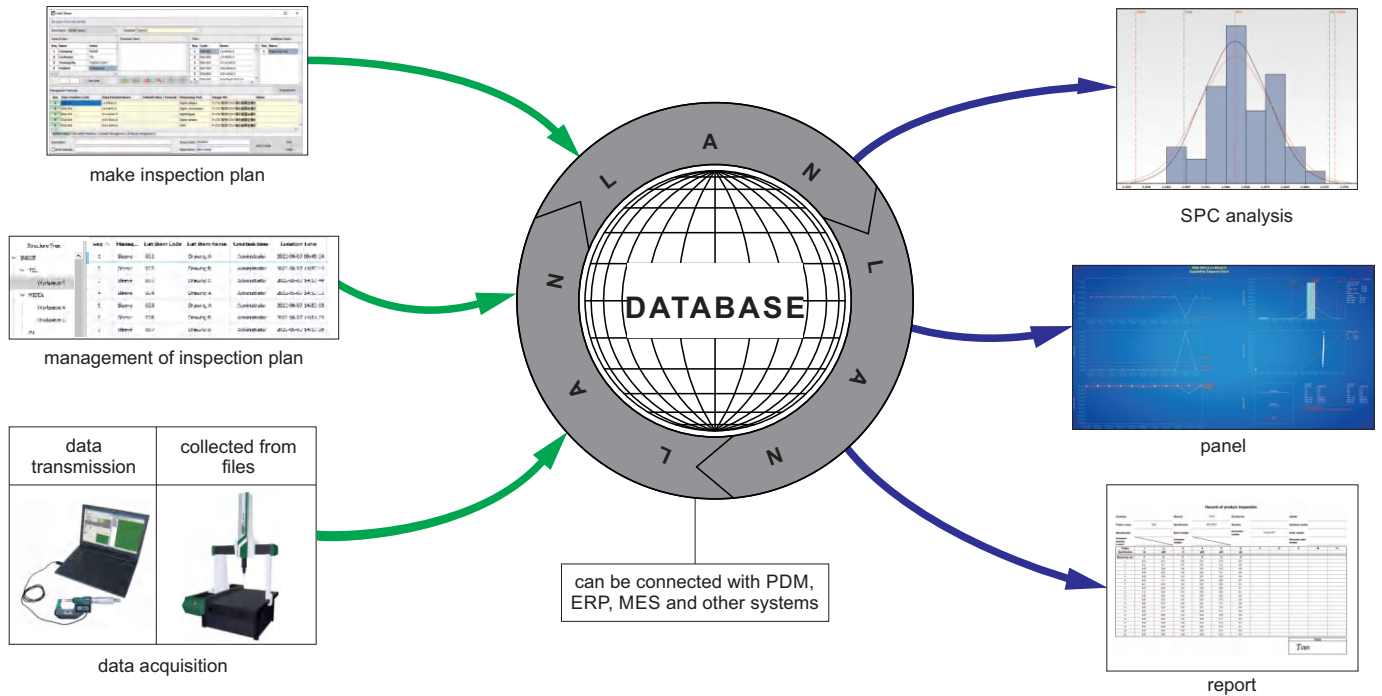**Wireless Data Transmission Systems**
Page 5-15

Data Output Cables
Page 16-27

Mobile Workbenches
Page 27

MEASUREMENT DATA MANAGEMENT AND ANALYSIS SOFTWARE

make inspection plan

management of inspection plan

data transmission	collected from files

data acquisition

DATABASE

can be connected with PDM, ERP, MES and other systems

SPC analysis

panel

report

Make inspection plan

■ Define the dimensions, tolerances, control range and other parameters of workpieces

VIDEO

define the drawing of workpieces

define association items of data

define the measured dimension and tolerance

Management of inspection plan

management by customers

management by drawings

management by departments

To be continued

Data acquisition
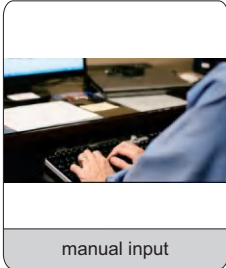
manual input
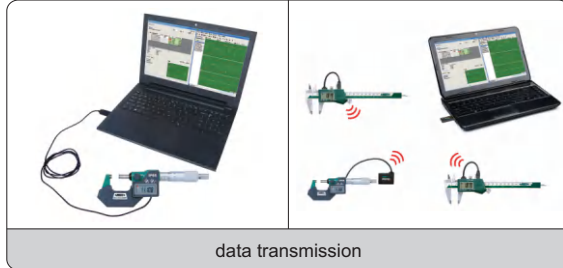
data transmission

file parsing

screen capture

measurement interface

SPC

■ Provide variety of quality analysis control charts

Xbar-R control chart

I-MR control chart

run control chart
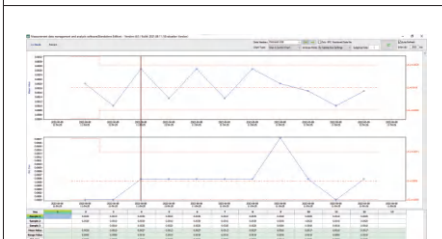
Xbar-S control chart
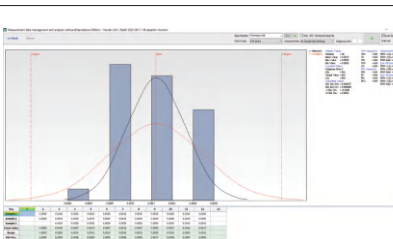
CPK control chart
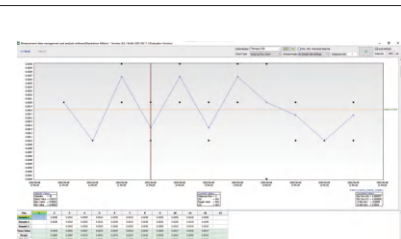
subgroup run chart

To be continued

Panel

- Real-time display of SPC charts of multiple dimensions on the panel to monitor production quality
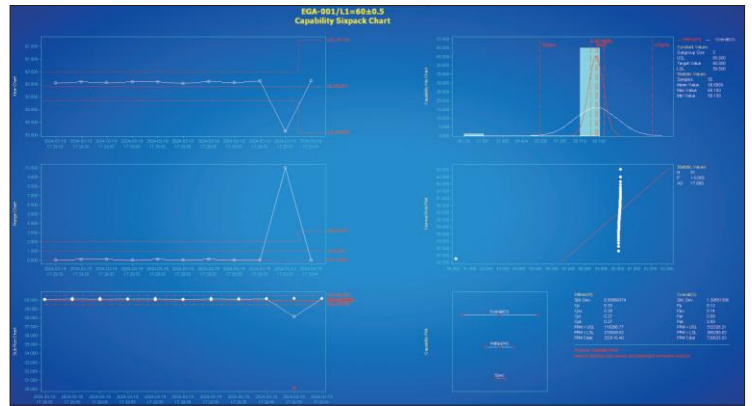
Report
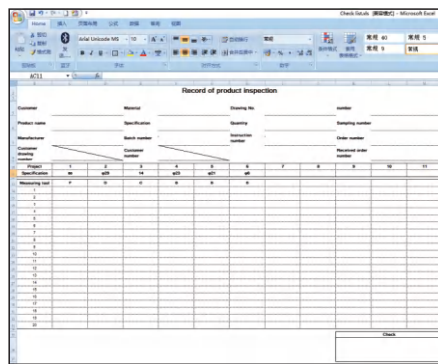
report template
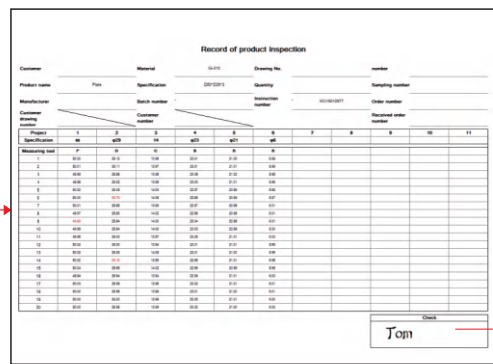
generate report

support exporting electronic signature

Complete version

Code	Data acquisition			SPC data analysis	Quality report	Real-time panel
	Manual input + Data transmission	File parsing	Screen capture			
7317	√	√	√	√	√	√

Acquisition+Analyze+Report

Code	Data acquisition		SPC data analysis	Quality report
	Manual input + Data transmission	File parsing		
7317-A1	√		√	√
7317-A2		√	√	√

Acquisition+Analyze

Code	Data acquisition		SPC data analysis
	Manual input + Data transmission	File parsing	
7317-B1	√		√
7317-B2		√	√

Acquisition+Report

Code	Data acquisition		Quality report
	Manual input + Data transmission	File parsing	
7317-C1	√		√
7317-C2		√	√

Acquisition

Code	Data acquisition	
	Manual input + Data transmission	File parsing
7317-D1	√	
7317-D2		√

Panel

Code	Real-time panel
7317-P	√

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			■ 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			■ Press the button of the transmitter ■ Data is transmitted once, the signal light of the transmitter flashes once
7315-30	transmitter for digital micrometers		 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
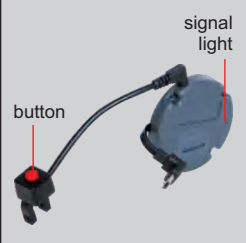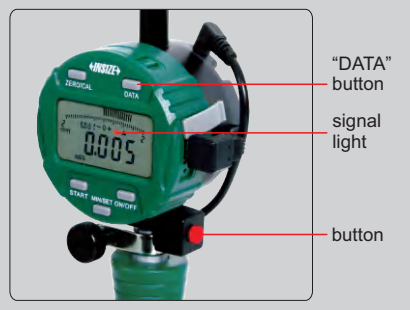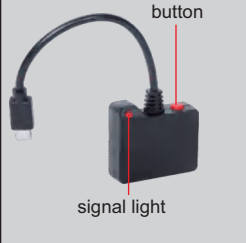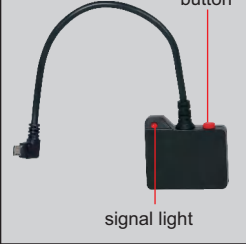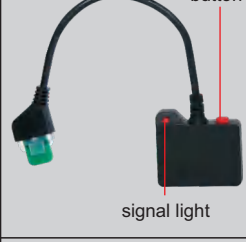
Continued from previous page

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 back signal light foot switch (code **7304-7**, **optional**) button for other digital indicators back signal light foot switch (code **7304-7**, **optional**)	■ 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 ■ 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

To be continued

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
7315-2183	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
7315-60	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	■ 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

Continued from previous page

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

Continued from previous page

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

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

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

VIDEO

connecting with computer
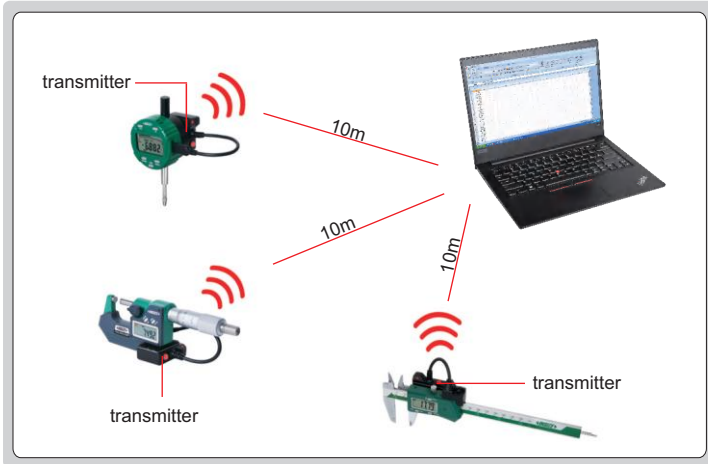
connecting with mobile phone

Code	Description	Transmitter	Connecting with measuring tool	Transmit data
7214-25	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
7214-22	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
7214-30	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 the digital micrometer, can also press the button of the transmitter ■ Data is transmitted once, the signal light of the transmitted flashes once, at the same time, the signal light on the digital micrometer flashes once

To be continued

Continued from previous page

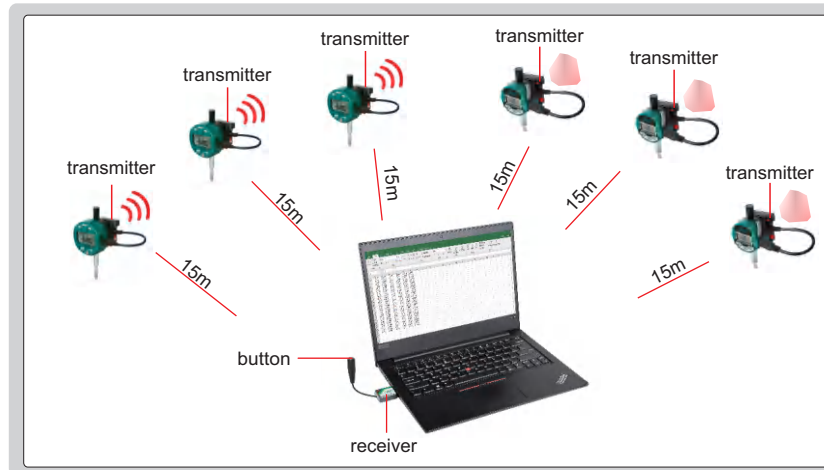| Code	Description	Transmitter	Connecting with measuring tool	Transmit data
7214-31	transmitter for digital micrometers		"data" button signal light back	■ Press the "data" button of digital micrometer ■ Data is transmitted once, the signal light on the digital micrometer flashes once
7214-50M	transmitter for digital indicators	button signal light	signal light button for digital indicators without data button	■ Press the button of the transmitter ■ Data is transmitted once, the signal light of the transmitter flashes once
7214-51	transmitter for digital indicators	signal light button	"DATA" button signal light button for digital indicators with data button back signal light foot switch (code **7304-7**, **optional**)	■ 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
7214-51B	transmitter for bore gauges	signal light button	"DATA" button signal light button for bore gauges with data 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

WIRELESS DATA TRANSMISSION SYSTEM OF DIGITAL INDICATORS (REMOTE CONTROL)

VIDEO

- 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			■ Press and hold the button to enter the measurement mode ■ Press the receiver button in measurement mode to acquire data

Continued from previous page

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	button USB port	multichannel receiver	connected with 6 transmitter, each channel has status indicator	- Press the button of the receiver - Data is transmitted once, the signal light of the receiver flashes once
7213-7M	button Type-C port			
7213-8M	button Micro USB port			
7213-9M	button Lightning port			

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

COMPARISON TABLE

ZIGBEE Wireless Transmission

receiver

receiver

receiver

15m

15m

15m
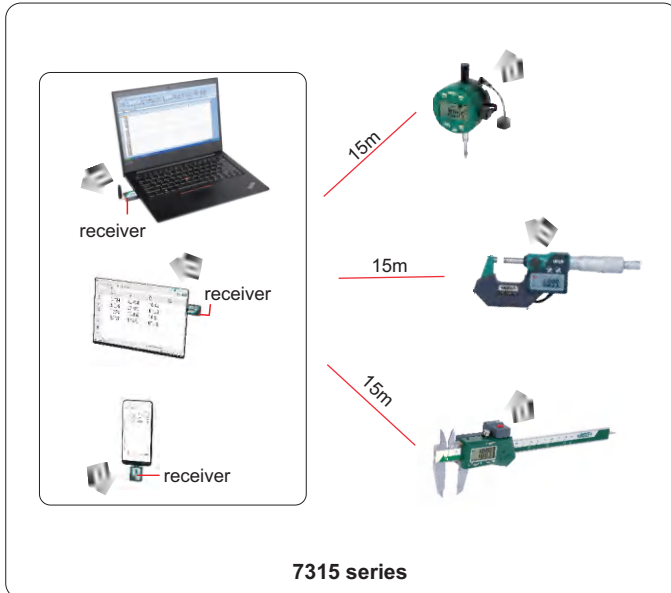
7315 series

Bluetooth Wireless Transmission

Bluetooth connection

Bluetooth connection

Bluetooth connection

10m

10m
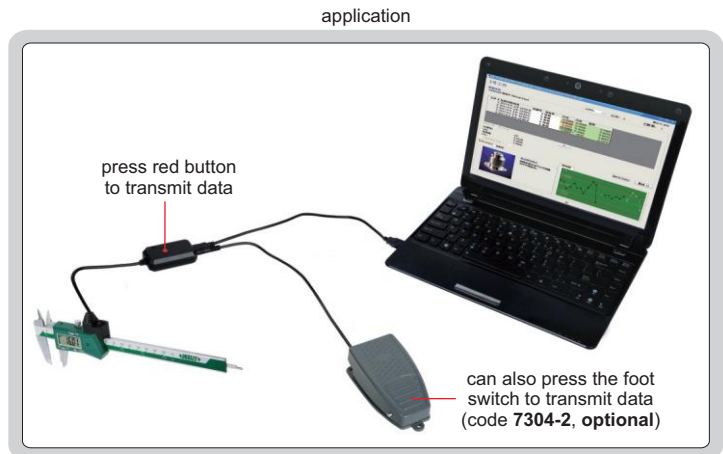
10m
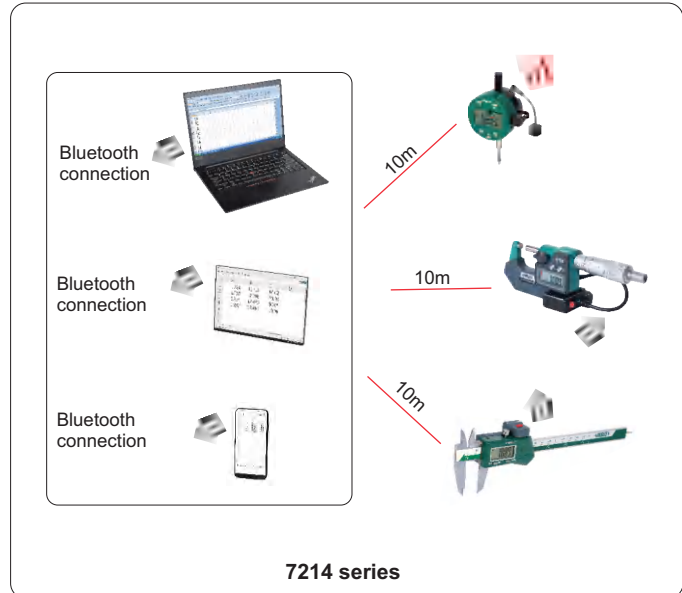
7214 series

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) 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 **7315-2** receiver) to transmit measurement data from multiple measuring tools to the designated area in Excel for easy data management)	keyboard format (suitable for any software or APP which can receive keyboard input values)
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

DATA OUTPUT CABLES (TEXT FORMAT, VIRTUAL COM PORT)

1) Data output cables with transmit box

application

signal light

transmit box — button

7305-21

press red button to transmit data

can also press the foot switch to transmit data (code **7304-2**, **optional**)
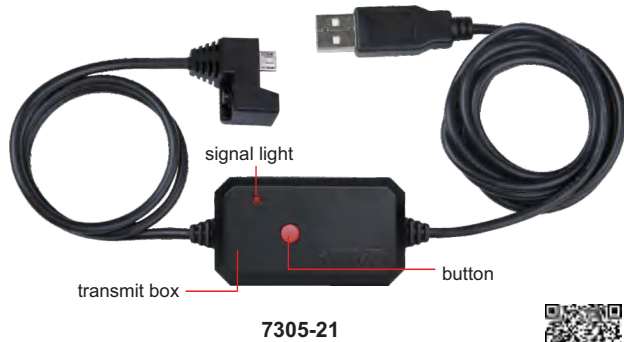
Single transmit (can be switched to continuous transmit)

VIDEO

Code	Description	Plug to measuring tool	Plug to computer	Connecting with measuring tool	Transmit data
7305-21 **7305-R21**	cable for digital calipers (length 3m)			button	▪ Press the button on the plug of cable, can also press the button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once
7305-22 **7305-R22**	cable for large digital calipers (length 2.5m)				▪ Press the button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once
7305-30 **7305-R30**	cable for digital micrometers (length 2.5m)			signal light "data" button back for **3102**, **3128**, **3565** series digital micrometers	▪ Press the "data" button of digital micrometer, can also press the button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once, at the same time, the signal light on the digital micrometer flashes once
7305-31 **7305-R31**	cable for digital micrometers (length 2.5m)			"data" button signal light IP65 back	▪ Press the "data" button of digital micrometer, can also press the button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once, at the same time, the signal light on the digital micrometer flashes once

Continued from previous page

Code	Description	Plug to measuring tool	Plug to computer	Connecting with measuring tool	Transmit data
7305-50M	cable for digital gauges (length 2.5m)				▪ Press the button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once
7305-R50M					
7305-1150	cable for digital height gauges (length 2.5m)				▪ Press the button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once
7305-R1150					

signal light

button

transmit box

7305-40M

Continuous transmit (can be switched to single transmit)

Code	Description	Plug to measuring tool	Plug to computer	Connecting with measuring tool	Transmit data
7305-40M	cable for digital indicators (length 2.5m)			"DATA" button signal light for **2108**, **2138**, **2139** series digital indicators	Continuous transmit is controlled in software Single transmit: ▪ Press the "DATA" button of digital indicator, can also press the button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once, at the same time, the signal light on digital indicator flashes once Note: long press button to zero the digital indicators; software of data transmit is included
				for other digital indicators	Continuous transmit is controlled in software Single transmit: ▪ Press the button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once Note: long press button to zero the digital indicators; software of data transmit is included

To be continued

17

1

Code	Description	Plug to measuring tool	Plug to computer	Connecting with measuring tool	Transmit data
7305-R40M	cable for digital indicators (length 2.5m)			"DATA" button signal light for **2108**, **2138**, **2139** series digital indicators	Continuous transmit is controlled in software Single transmit: ■ Press the "DATA" button of digital indicator, can also press the button of the transmit box, or press the foot switch ■ Data is transmitted once, the signal light of the transmit box flashes once, at the same time, the signal light on digital indicator flashes once Note: long press button to zero the digital indicators; software of data transmit is included
				for other digital indicators	Continuous transmit is controlled in software Single transmit: ■ Press the button of the transmit box, or press the foot switch ■ Data is transmitted once, the signal light of the transmit box flashes once Note: long press button to zero the digital indicators; software of data transmit is included

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
■ Can save results as Excel

export Excel   real-time display   setting zero of digital indicators

measurement results and judgment

setting tolerance and sampling period
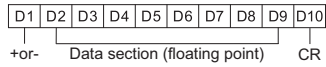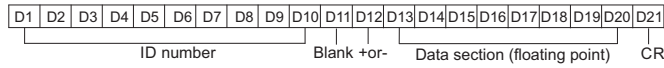
18

Continued from previous page

communication protocol

- Baud: 9600bps
  Data bit: 8
  Stop bit 1
  Check bit: None
  No flow control

- Data output format

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10

+or-   Data section (floating point)   CR

Data format example
  Display   Output
  1.234   ➡   +0001.234↙
  -1.234   ➡   -0001.234↙

- Data output format with ID number

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20	D21

ID number   Blank +or-   Data section (floating point)   CR
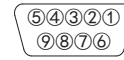
Data format example
  Display   Output
  1.234   ➡   4109210605 +0001.234↙
  -1.234   ➡   4109210605 -0001.234↙

- The data transmission mode can be switched:
  single or continuous;
  The data output format can be switched:
  with ID number or without ID number;
  Data can be transmitted by command;
  The digital indicators can be zeroed by command

- Pin definition of RS232 plug:

⑤④③②①
⑨⑧⑦⑥

Pin No.	Symbol	Description
2	TXD	Data OUT
3	RXD	Data IN
4	VDD	+5V Power
5	GND	Ground

2) Data output cables without transmit box

application

7305-G3350

Single transmit

Code	Description	Plug to measuring tool	Plug to computer	Connecting with measuring tool	Transmit data
7305-G60	cable for high precision digital indicators (length 3m)			"DATA" button	■ Press the "DATA" button of high precision digital indicator
7305-G3350	cable for digital micrometers (length 3m)			"DATA" button	■ Press the "DATA" button of digital micrometer

communication protocol

- Baud: 9600bps
  Data bit: 8
  Stop bit 1
  Check bit: None
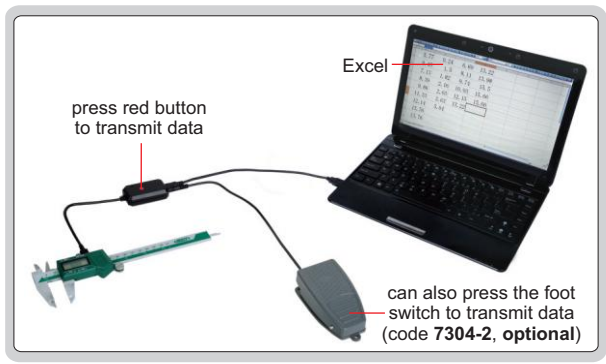 No flow control

- Data output format

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10

+or-   Data section (floating point)   CR
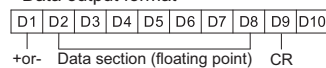
Data format example
  Display   Output
  1.234   ➡   +0001.234↙
  -1.234   ➡   -0001.234↙

- Data can be transmitted by command
  The digital indicators or micrometers
  can be zeroed by command

application

DATA OUTPUT CABLES (KEYBOARD FORMAT)

press red button to transmit data

Excel

can also press the foot switch to transmit data (code **7304-2**, **optional**)

signal light

button

transmit box

7302-21

- 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 key, such as 12.34↙)
- 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**)

VIDEO

Code	Description	Plug	Connecting with measuring tool	Transmit data
7302-21	cable for digital calipers (length 3m)		button	- Press the button on the plug of cable, can also press the button of the transmit box, or press the foot switch - Data is transmitted once, the signal light of the transmit box flashes once
7302-22	cable for large digital calipers (length 2.5m)			- Press the button of the transmit box, or press the foot switch - Data is transmitted once, the signal light of the transmit box flashes once
7302-30	cable for digital micrometers (length 2.5m)		signal light "data" button back for **3102**, **3128**, **3565** series digital micrometers	- Press the "data" button of digital micrometer, can also press the button of the box, or press the foot switch - Data is transmitted once, the signal light of the transmit box flashes once, at the same time, the signal light on the digital micrometer flashes once
7302-31	cable for digital micrometers (length 2.5m)		signal light "data" button IP65 back	- Press the "data" button of digital micrometer, can also press the button of the transmit box, or press the foot switch - Data is transmitted once, the signal light of the transmit box flashes once, at the same time, the signal light on the digital micrometer flashes once

To be continued

20
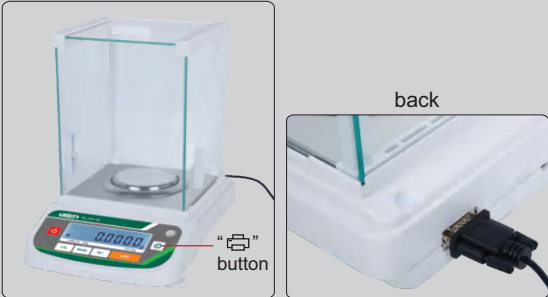
Continued from previous page

Code	Description	Plug	Connecting with measuring tool	Transmit data
7302-50M	cable for digital gauges (length 2.5m)			■ Press the button of the transmit box, or press the foot switch ■ Data is transmitted once, the signal light of the transmit box flashes once
7302-40M	cable for digital indicators (length 2.5m)		 "DATA" button signal light for **2108**, **2138**, **2139** series digital indicators	■ Press the "DATA" button of digital indicator, can also press the button of the transmit box, or press the foot switch ■ Data is transmitted once, the signal light of the transmit box flashes once, at the same time, the signal light on digital indicator flashes once Note: long press button to zero the digital indicators
			 for other digital indicators	■ Press the button of the transmit box, or press the foot switch ■ Data is transmitted once, the signal light of the transmit box flashes once Note: long press button to zero the digital indicators
7302-60	cable for high precision digital indicators (length 2.5m)		 "DATA" button	■ Press the "DATA" button of high precision digital indicator, can also press the button of the transmit box, or press the foot switch ■ Data is transmitted once, the signal light of the transmit box flashes once
7302-3350	cable for digital micrometers (length 2.5m)		 "DATA" button	■ Press the "DATA" button of digital micrometer, can also press the button of the transmit box, or press the foot switch ■ Data is transmitted once, the signal light of the transmit box flashes once
7302-1151	cable for digital height gauges (length 2.5m)			■ Press the button of the transmit box, or press the foot switch ■ Data is transmitted once, the signal light of the transmit box flashes once

To be continued

Code	Description	Plug	Connecting with measuring tool	Transmit data
7302-SPC7	cable for digital height gauges (length 2.5m)			■ Press the button of the transmit box, or press the foot switch ■ Data is transmitted once, the signal light of the transmit box flashes once
7302-8001	cable for weighing scales (length 2.5m)		 back "⟳" button for **8301** and **8305** series electronic balances	■ Press the "⟳" button of electronic balance, can also press the button of the transmit box, or press the foot switch ■ Data is transmitted once, the signal light of the transmit box flashes once
			 back for **8001-6D**, **8001-15D**, **8001-30D** series weighing scales and **8501** series platform scales	■ Press the button of the transmit box, or press the foot switch ■ Data is transmitted once, the signal light of the transmit box flashes once
7302-8304	cable for electronic balances (length 3m)		 back "🖨" button	■ Press the "🖨" button of electronic balance, can also press the button of the transmit box, or press the foot switch ■ Data is transmitted once, the signal light of the transmit box flashes once
7302-LDM	cable for laser scan micrometers (length 3m)			■ Press the button of the transmit box, or press the foot switch ■ Data is transmitted once, the signal light of the transmit box flashes once

485 DATA OUTPUT CABLES

- Modbus-RTU protocols
- Can be connected to a PC or PLC
- The baud rate is configurable (9600, 19200, 38400)
- The communication address is configurable

7215-50M

| Code	Description	Plug	Connecting with measuring tool	Transmit data
7215-21	cable for digital calipers (length 3m)			- Acquiring data through host computers
7215-22	cable for digital calipers (length 2.5m)			- Acquiring data through host computers
7215-30	cable for digital micrometers (length 2.5m)		for **3102**, **3128**, **3565** series digital micrometers · back	- Acquiring data through host computers
7215-31	cable for digital micrometers (length 2.5m)		IP65 · back	- Acquiring data through host computers
7215-40M	cable for digital indicators (length 2.5m)			- Acquiring data through host computers
7215-50M	cable for digital gauges (length 2.5m)			- Acquiring data through host computers

VIDEO

back

**8-channel interface box
7210-2**

**data output cable
7305-R40M**

application
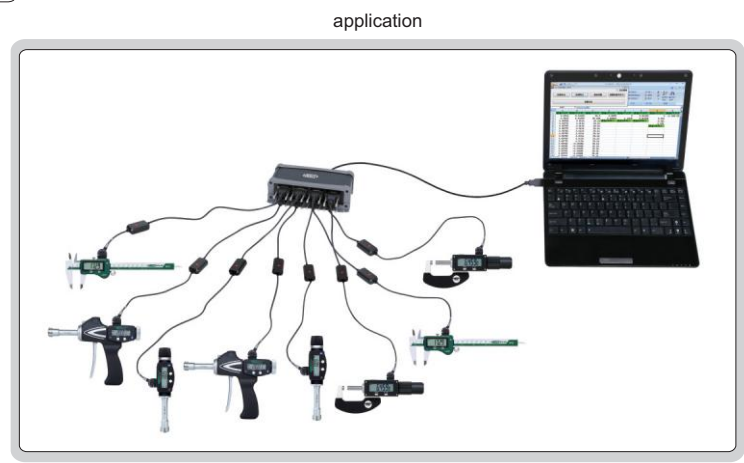
- The interface box can be connected to digital measuring tools, such as calipers, micrometers, indicators (**7305-R** series data output cables are needed)
- The interface box is supplied with Excel directional input software
- The interface box can be connected with 8 data output cables, each of them has unique identification code

INTERFACE BOX SPECIFICATION

Code	7210-2
Quantity of digital measuring tools to be connected	8 pcs
Output port	USB (virtual serial signal)

Excel directional input software

- Supplied with **7210-2** interface box
- The measurement data of multiple measuring tools can be transmitted to the designated area of Excel, which is convenient for data management and improves efficiency

excel directional input software
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
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

To be continued

Continued from previous page

DATA OUTPUT CABLE SPECIFICATION

Code	Description	Plug to measuring tool	Connecting with measuring tool	Transmit data
7305-R21	cable for digital calipers (length 3m)		button	▪ Press the button on the plug of cable, can also press the button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once
7305-R22	cable for large digital calipers (length 2.5m)			▪ Press the button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once
7305-R30	cable for digital micrometers (length 2.5m)		signal light, "data" button, back	▪ Press the "data" button of digital micrometer, can also press the button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once, at the same time, the signal light on the digital micrometer flashes once
7305-R40M	cable for digital indicators (length 2.5m)		"DATA" button, signal light, suitable for **2108, 2138, 2139** series digital indicators	▪ Press the "DATA" button of digital indicator, can also press the button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once, at the same time, the signal light on digital indicator flashes once
			suitable for other digital indicators	▪ Press the button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once
7305-R50M	cable for digital gauges (length 2.5m)			▪ Press the button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once
7305-R1150	cable for digital height gauges (length 2. 5m)			▪ Press the button of the transmit box, or press the foot switch ▪ Data is transmitted once, the signal light of the transmit box flashes once

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connected with digital indicator

connected with digital indicators

MULTICHANNEL INTERFACE BOXES

REFER TO PAGE 564 FOR DETAILS

7107-1

application

7324-HUB7

connect multiple data cables
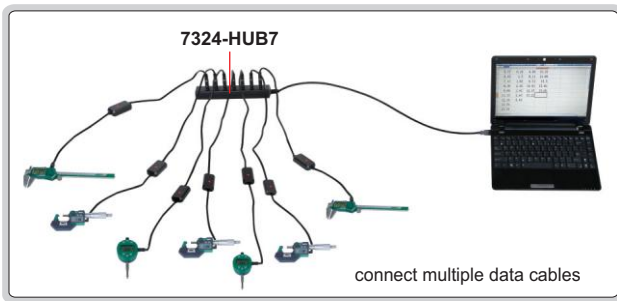
HUBS

7324-HUB4   **7324-HUB7**

adapter **(optional)**

- Suitable for USB plug data cable

7324-ADAPTER

7324-HUB16

Code	Description	Applicable products	Note
7324-HUB4	4-channel hub (length 0.2m, USB computer plug)	**7302** series data cables (USB plug) **7305** series data cables (USB plug)	no adapter required
7324-HUB7	7-channel hub (length 1m, USB computer plug)		optional: adapter (code: **7324-ADAPTER**) note: adapter required for connecting high power devices
7324-HUB16	16-channel hub (length 1m, USB computer plug)		adapter is included

EXTENSION CABLES

application

| 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)

7325-ADD5

FOOT SWITCH

7304-2

■ 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

press the foot switch to transmit data
(code **7304-2**, **optional**)
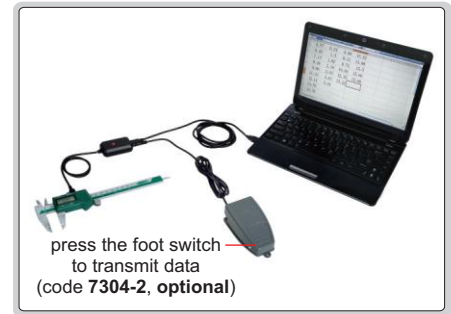
OK/NG INPUT SWITCHES

7327-FS

7327-SW

■ Used with **7317** software, output OK or NG
■ USB plug, length 1.5m

Code	Description
7327-FS	foot switch for OK/NG input
7327-SW	hand switch for OK/NG input

application

MOBILE WORKBENCH

7901-10A

application

receiver
transmitter
wireless caliper
transmitter
socket
transmitter

Unit: mm

140
580
702
800
1103
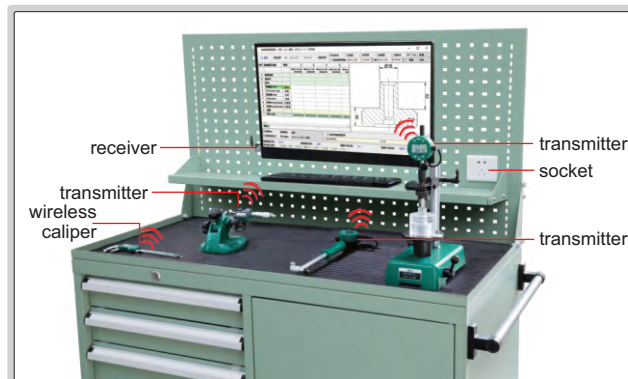
■ Tabletop can support 50kg

Code	L×W×H (without caster)
7901-10A	1103×580×1502mm

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