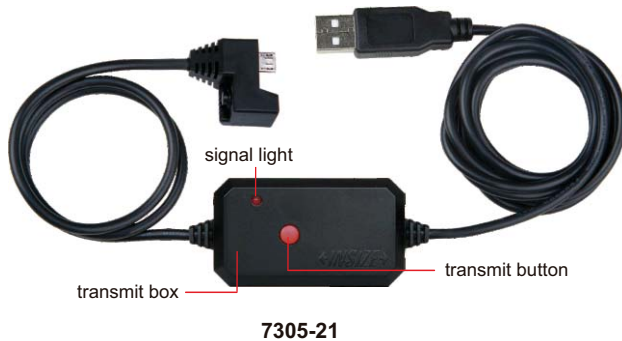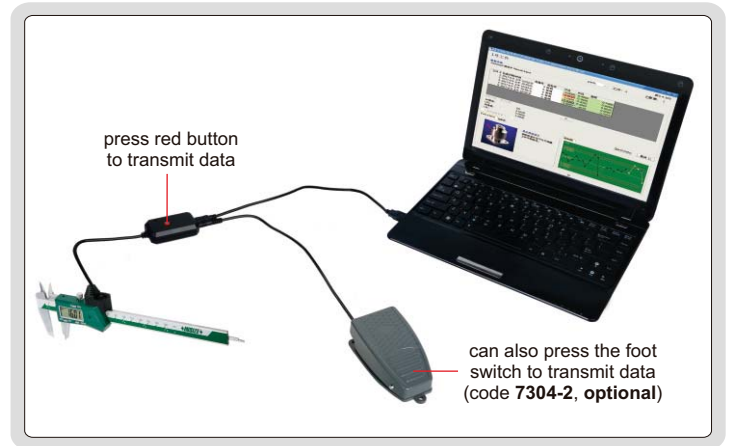# DATA OUTPUT CABLES (TEXT FORMAT, VIRTUAL COM PORT)

1) Data output cables with transmit box

application

signal light

transmit box

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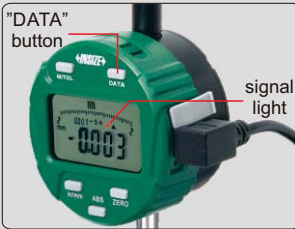
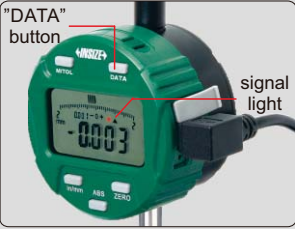| Code	Description	Plug to measuring tool	Plug to computer	Connecting with measuring tool	Transmit data
7305-21	cable for digital calipers (length 3m)			transmit button	▪ Press the transmit button on the plug of cable, can also press the transmit button of the transmit box, or press the foot switch ▪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

Code	Description	Plug to measuring tool	Plug to computer	Connecting with measuring tool	Transmit data
7305-50M	cable for digital gages (length 2.5m)				▪ Press the transmit 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 gages (length 2.5m)				▪ Press the transmit 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

transmit box — transmit button
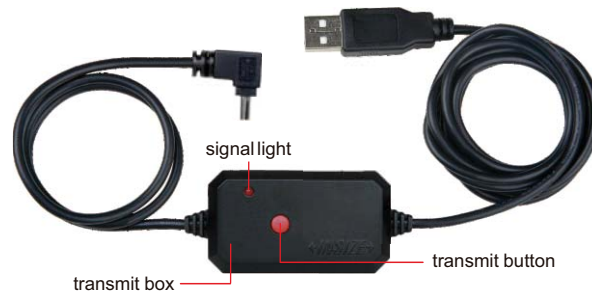
7305-40M

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 suitable 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 transmit 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 transmit button to zero the digital indicators, software of data transmit is included
				 suitable for other digital indicators	Continuous transmit is controlled in software Single transmit: ▪ Press the transmit 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 transmit button to zero the digital indicators, software of data transmit is included

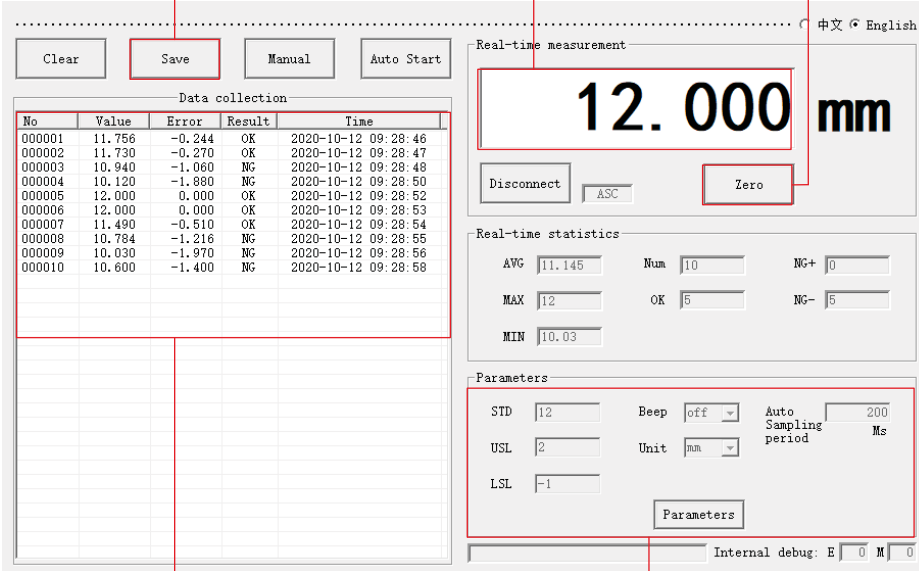| Code	Description	Plug to measuring tool	Plug to computer	Connecting with measuring tool	Transmit data
7305-R40M	cable for digital indicators (length 2.5m)			"DATA" button / signal light / suitable for **2108**, **2138**, **2139** series digital indicators	Continuous transmit is controlled in software Single transmit: ■ Press the "DATA" button of digital indicator, can also press the transmit 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 transmit button to zero the digital indicators, software of data transmit is included
				suitable for other digital indicators	Continuous transmit is controlled in software Single transmit: ■ Press the transmit 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 transmit 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

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 of digital indicators can be transmitted by instruction
  The digital indicators can be zeroed by instruction

- 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
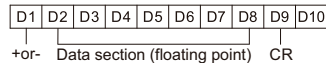
Data format example

Display	Output
1.234 ➡	+0001.234↙
-1.234 ➡	-0001.234↙

- Data of high precision digital indicators can be transmitted by instruction
  The high precision digital indicators can be zeroed by instruction