



MEASUREMENT SOLUTION PROVIDER



WIRELESS MEASUREMENT DATA TRANSMISSION SYSTEM

CATALOGUE NO. DA-E11

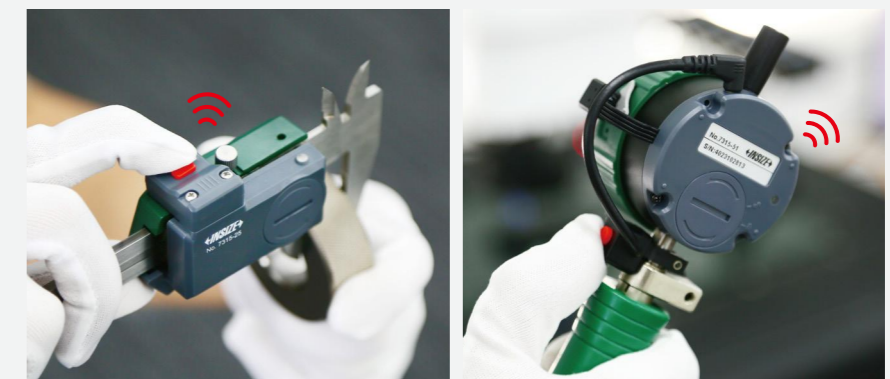


WIRELESS MEASUREMENT DATA TRANSMISSION SYSTEM

The INSIZE wireless measurement data transmission system uses wireless communication technology to accurately and quickly collect measurement data from the production site, helping users transmit data between measurement tools and computers or mobile phones.

Supports simultaneous access from multiple devices, enabling one-click transfer and automatic recording. Measurement data can be transferred to Excel spreadsheets, MES systems, ERP systems, QMS systems, and mobile apps, enabling paperless collection of measurement data and helping enterprises build a complete digital quality management system.

Through a secure and reliable wireless communication network, production processes are optimised, inspection efficiency is improved, and operating costs are reduced. This technology is widely applied in industrial measurement fields such as mechanical processing, automobile manufacturing, and electronic components.



| Solvable Problems

Compared to the traditional data management methods commonly used in factories, such as handwritten records and paper document storage, choosing the INSIZE wireless measurement data transmission system will bring you a revolutionary new intelligent experience.

Traditional Handwritten Records



Handwritten records require manual reading of measurement data and writing down each word and sentence, which is time-consuming and laborious.

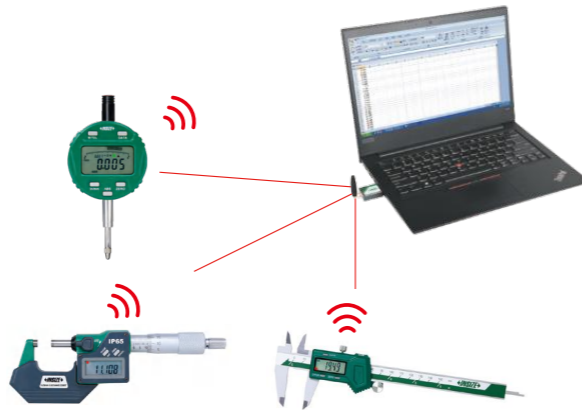
Handwritten records are prone to data inaccuracies due to pen errors, scribbles or transcription errors.

Traditional handwritten data entry analysis requires manual sorting and statistics, and it is difficult to perform complex data analysis.

Paper documents face difficulties in storage, retrieval, and reference, and are prone to damage, loss, or tampering.

VS

INSIZE Wireless, Measurement Data Transmission System



Work efficiency

One-click data transfer significantly reduces data entry time, particularly when dealing with large data volumes where the advantage becomes even more pronounced.

Data accuracy

Direct data transmission to computers or mobile phones eliminates the possibility of human error, greatly improving data accuracy and reliability.

Data analysis

Can cooperate with software for rapid data processing, analysis and statistics.

Paperless management

Can achieve paperless office work, electronic spreadsheets are more convenient for storage, circulation and data retrieval compared to paper documents.

| Technical Advantages

01 Wireless communication technology

- **Secure and stable:** Uses wireless communication protocols based on IEEE802 (2.4GHz) for safe and stable data transmission. Transmission distance is approximately 10-15m (unobstructed, no electromagnetic interference).
- **Easy deployment:** No wiring required, not restricted by the on-site environment, easier layout.

03 Full coverage of industrial production

- **Measuring tool compatibility:** Supports data transmission requirements for over 90% of INSIZE measuring tools.
- **Terminal compatibility:** Compatible with a variety of terminal devices, including desktop computers, all-in-one computers, tablets, and smartphones.
- **Full interface support:** Equipped with mainstream data interfaces such as USB/Type-C/Micro-USB/Lightning to meet various connection requirements.
- **Multi-protocol transmission:** Supports multiple communication protocols, including HID keyboard signals, serial port signals, and RS485.

05 Comprehensive data analysis capabilities

- Mature supporting software can collect, summarize and analyze data, making data management simpler, smarter and more visual.

02 Deep customization service

- **Custom secure transmission protocol:** Customizable AES128 data encryption to enhance data security.
- **Customised for customers:** Data transmission formats, communication protocols, wireless protocols, etc. can be customized according to customer requirements.

04 User-friendly operation

- **One-click transmission:** Complete data collection and transmission with a single click, greatly improving work efficiency.
- **Easy to operate:** Pairing and unpairing are simple, with no usage barriers.
- **Integrated design:** Works well with measuring tools, compact and lightweight, with no interference during operation.
- **Memory function:** After pairing, the transmitter and receiver automatically remember the pairing information, eliminating the need for repeated binding.

06 Ultra-low power consumption

- A single CR2032 battery can support over 400,000 continuous transmissions.

| System Composition

The INSIZE wireless measurement data transmission system consists of two parts: a wireless transmitter and a receiver.

The transmitter is connected to the measuring tool to send data, and the receiver receives the data and transmits it to a computer or mobile phone terminal.

Transmitter device



External wireless transmitter



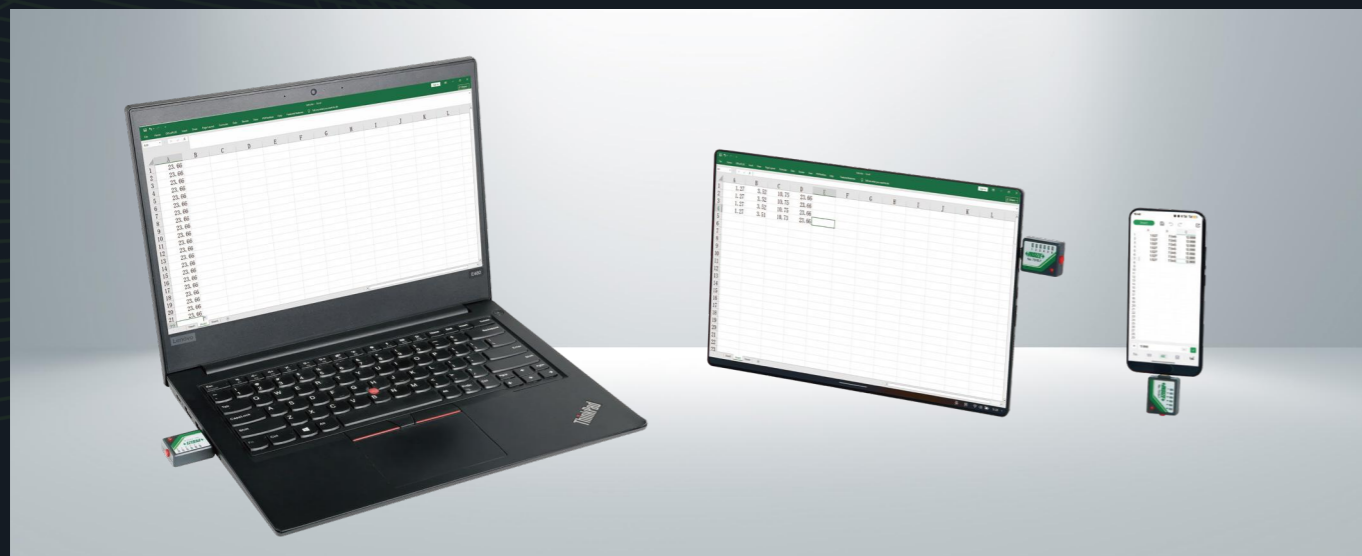
Integrated wireless transmitter



Built-in wireless measuring tools

Receiver device

The INSIZE wireless receiver provides all-scenario compatibility solutions: supports Windows/Android/iOS operating systems and is compatible with computers, tablets, smartphones and other terminal devices.



The receiver can be adapted to computers/tablets/phones

| Compatible Measuring Tools

The INSIZE wireless data transmission capabilities comprehensively cover commonly used measuring tools and instruments.



Digital Measuring Tapes



Roughness Testers



Digital Calipers



Air Gauge Displays



Digital Outside Micrometers



Electronic Balances



Coating Thickness Gauges



Digital Force Gauges



Digital Height Gauges



Digital Bore Gauges

For more compatible products, please refer to the INSIZE full catalog.

EXTERNAL WIRELESS TRANSMITTER

External wireless transmitter with multiple interface options, including but not limited to Micro-USB, Mini-USB, DB9, etc.

When used with INSIZE measurement tools that support data transmission, measurement data can be wirelessly transmitted to the receiver terminal. The transmitter can be fixed in place according to on-site requirements, offering flexibility and convenience.

Common External Wireless Transmitters



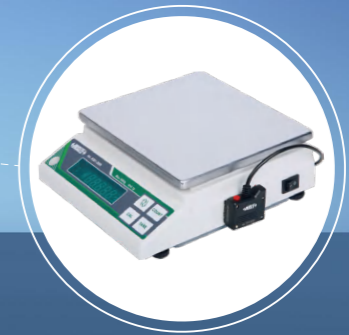
7315-80 Compatible With Digital Micrometers



7315-2771 Compatible With Digital Protractors



7315-22 Compatible With Digital Large Calipers



7315-8301 Compatible With Electronic Balances



7315-60 High Precision Digital Indicators



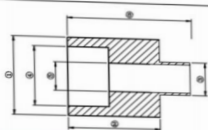
Integrated Wireless Transmitter

Compact and lightweight, highly integrated: Featuring an integrated design, it is compact in size and lightweight, perfectly compatible with measuring tools to ensure smooth and interference-free operation.

Ergonomic design for comfortable grip: The measurement tool fits snugly into the structure without affecting the original usage habits, allowing for easy and comfortable operation even during prolonged use.



Integrated Wireless Transmitter



Transmission type	Wireless Transmission			
	45±0.5	21±0.05	35±0.5	38±0.06
Norm	Caliper	Micrometer	Digital indicator	Caliper
Gauge				
1	45.25	21.299	35.302	38.00
2	45.25	21.299	35.301	38.00
3	45.25	21.299	35.302	38.00
4	45.25	21.299	35.302	38.00
5	45.25	21.299	35.302	38.00
6	45.25	21.299	35.302	38.00
7	45.25	21.299	35.302	38.00
8	45.25	21.299	35.302	38.00
9	45.25	21.299	35.302	



Calipers integrated wireless transmitter



Micrometers integrated wireless transmitter



Digital indicators /Digital gauges /Digital bore gauges integrated wireless transmitter





Built-in Wireless Transmission Products

The measuring tool has a built-in wireless transmission module. Press the data transmission button to transmit the measurement data to a computer, mobile phone, or other terminal via wireless transmission.

- Compact and portable structure:**
 Remove external modules, optimise the overall structure, and improve the convenience and balance of single-handed operation.
- Excellent protection performance:**
 Inherits the protection rating of the main equipment (such as IP65), with dustproof, waterproof and shockproof capabilities, suitable for harsh industrial environments.

Common Built-in Wireless Transmission Products



Wireless Digital Calipers



Wireless Digital Torque Wrenches



Wireless Digital Outside Micrometers



Wireless Digital Measuring Tapes



Wireless Ultrasonic Thickness Gauges



Wireless Coating Thickness Gauges



Wireless High Precision Digital Indicators



Wireless Roughness Testers

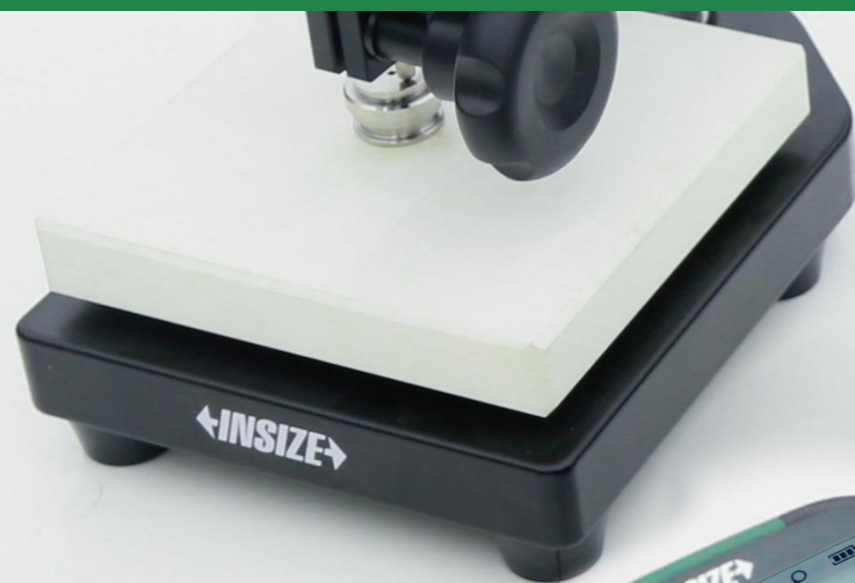
For more products, please refer to the INSIZE full product catalog.

| WIRELESS RECEIVER






Multi-Interface Compatibility

Multi-System Compatibility

The wireless receiver features multiple interfaces (USB, Type-C, Micro-USB, Lightning), is compatible with Windows, Android, and iOS systems, and supports multiple communication modes, including keyboard signals (HID) and serial port signals (COM/RS485), ensuring seamless integration with various terminal devices and adapting to complex and demanding industrial environments.

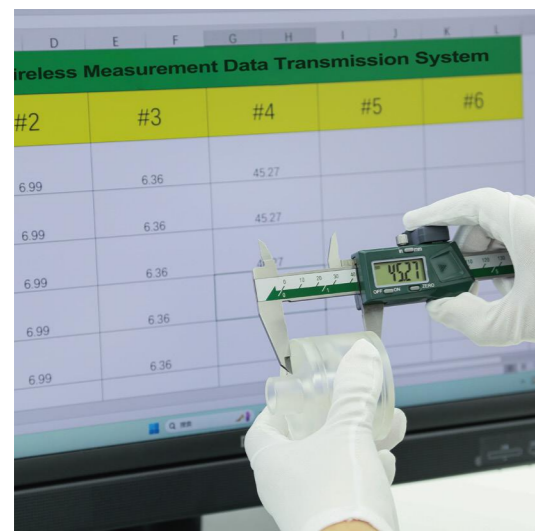


Receiver (keyboard signal)

Code	Product	Name	Data types	Compatible terminals
7315-3	USB port 	single channel receiver	keyboard signal	compatible with Windows, Android and iOS systems computers and mobile phones
7315-6	USB port 	multichannel receiver		
7315-7	Type-C port 			
7315-8	Micro-USB port 			
7315-9	Lightning port 			



Keyboard Signal Transmission Measurement Example

Using a digital caliper to measure workpiece dimensions, combined with the 7315-25 integrated transmitter and 7315-6 multi-channel receiver for data transmission, can transfer measurement data to any location in an Excel spreadsheet.



Wireless Measurement Data Transmission System					
#1	#2	#3	#4	#5	
6.99	6.36	45.27			
6.99	6.36	45.27			
6.99	6.36	45.27			Top-down Starting from the mouse-specified position, data can be input one-by-one from top to bottom, or from left to right.
6.99	6.36				
6.99	6.36				
6.99	6.36				
6.99	6.36				

Receiver (serial port signal)

Code	Product	Name	Data types	Compatible terminals
7315-2	USB port 	multichannel receiver	serial port signal	compatible with Windows system computers
7315-485			RS485	compatible with Windows computers and PLC access

Directional Transmission Example

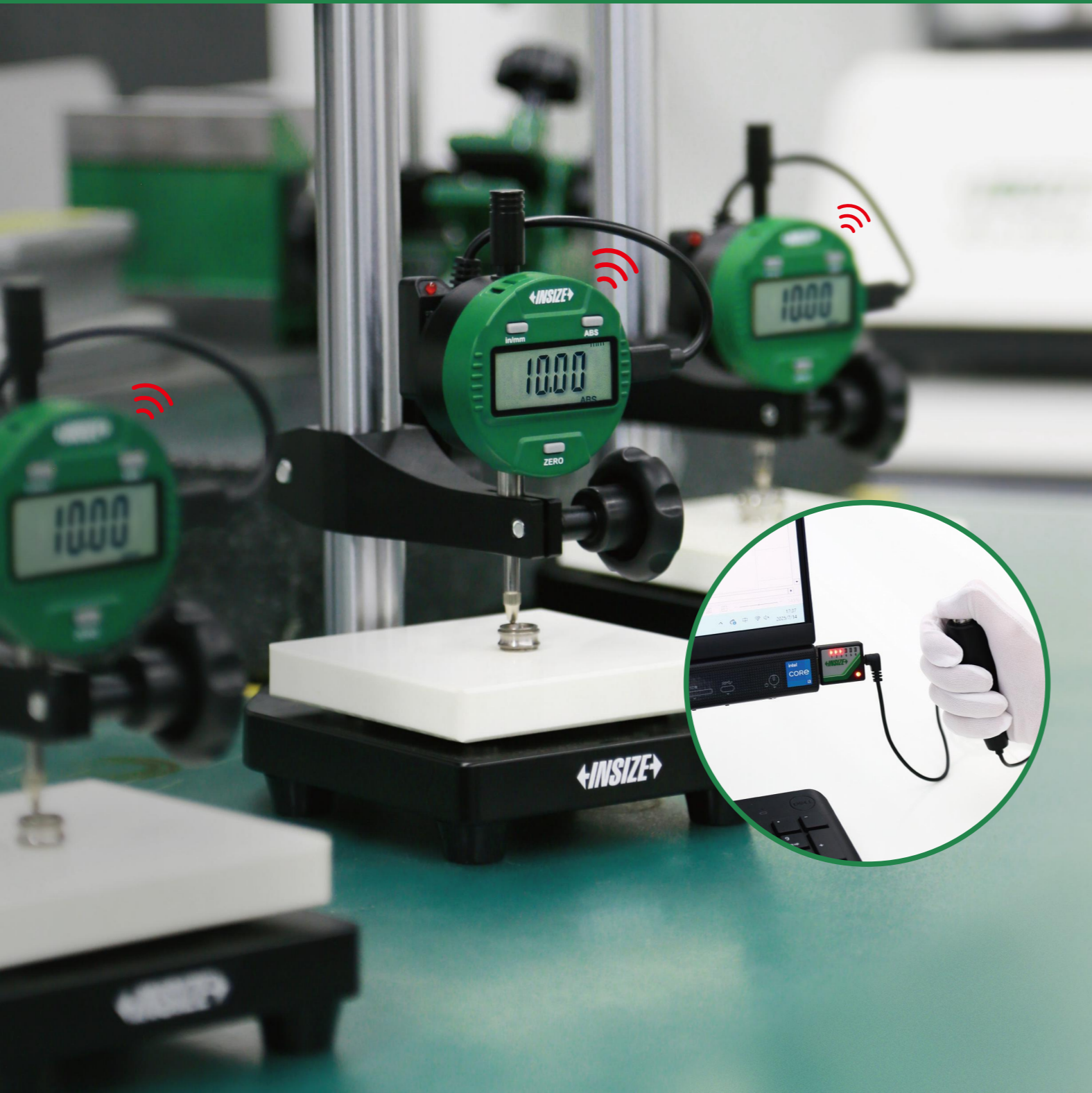
The 7315-2 serial signal receiver simultaneously connects to 3 transmitters, each transmitter connected to measuring tools (caliper, height gauge, and bore gauge) respectively, to measure 5 critical dimensions of the workpiece.

Through the directional transmission software included with the 7315-2, the data from each measuring tool is automatically transmitted to designated cell areas in an Excel spreadsheet, achieving precise recording and efficient management.

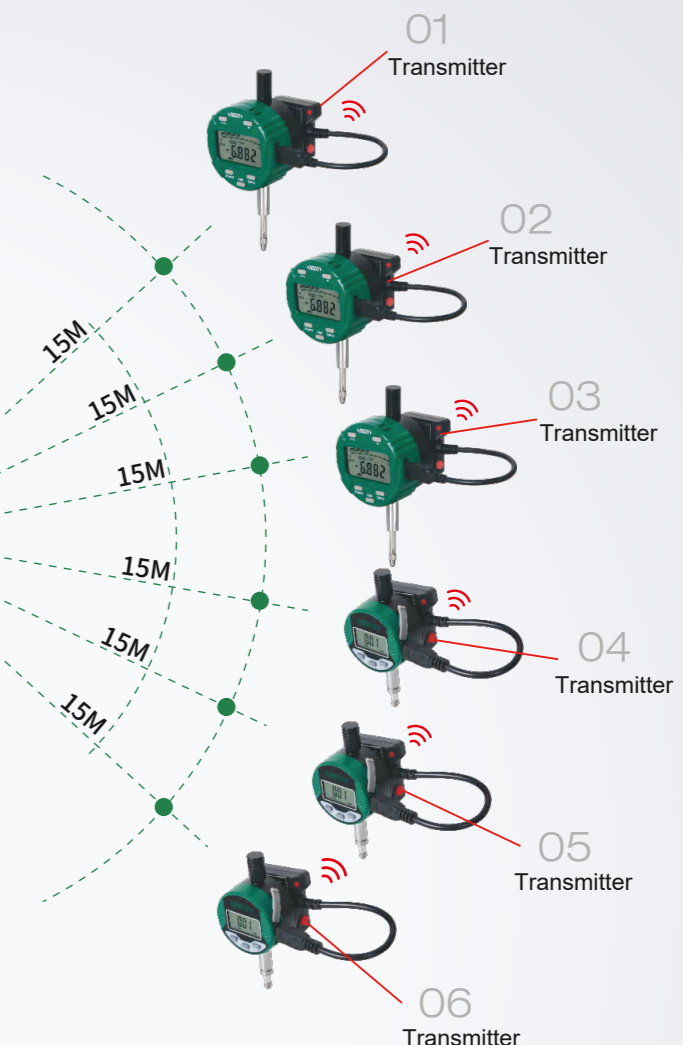
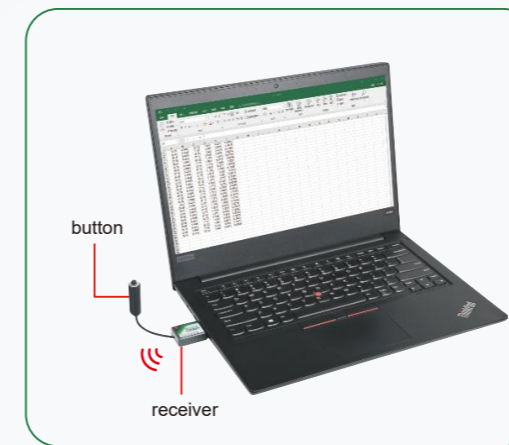


Wireless Transmission				
Outside diameter 1	Outside diameter 3	Height 2	Inside diameter 4	Inside diameter 5
60±0.5	21±0.5	45±0.5	30±0.06	15±0.1
Caliper	Caliper	Digital height gauges	Bore gauges	Bore gauges
60.19	20.97	45.20	30.005	14.996
60.49	20.96	45.24	30.003	14.996
60.17	20.96	45.32	30	15
60.44	20.97	45.22	29.995	14.996
60.44	21.25	45.21	29.996	14.993
60.34	21.25	45.08	30.002	15
60.25	21.25	45.03	30.002	14.996
60.25	Channel 1 Writing	Channel 2 Writing	30.002	Channel 3 Writing

WIRELESS DATA TRANSMISSION SYSTEM OF DIGITAL INDICATORS (REMOTE CONTROL) 7213 Series



- The readings of digital indicators can be transmitted to computers or mobile phones
- Data acquisition can be remotely controlled through the receiver
- Conform to IEEE802 wireless standard 2.4GHz band communication frequency
- Transmission distance is 15 meter (under the condition of noobstruction and no electromagnetic interference)



Product Advantages:

- **Operational Convenience:**
Data can be collected via the receiver without direct contact with measuring tools, adapting to complex working conditions such as operations in confined spaces, mobile monitoring, and concealed installations.
- **Multi-device Coordination:**
Enables convenient data collection and synchronization across multiple devices, adapting to working conditions requiring coordinated use of multiple measuring tools, thereby improving overall measurement efficiency and collaboration.

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
24.35	0.45	55.24	25.33	5.44	12.55
24.35	0.45	55.24	25.33	5.44	12.55
24.35	0.45	55.24	25.33	5.44	12.55
24.35	0.45	55.22	25.31	5.44	12.55




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